ggtgaggaca actggcacat agtttcttaa atctctccca gtattcatat aaactctctc 300

cattgagttg cataattcct gaaatatctt ttctgatggt tgtggtcttg 350

<210> 4658
<211> 410
<212> DNA
<213> Glycine max

<400> 4658

agcttcaagt gatacagaca gtgaaatcat ttttgatgag cttgccacat cctatagaga 60

actatgcatc aaaagcgaga agattcttca gcaagaagca caactgaaga aggtcattgc 120

aaatctggag gctgagaagg aggcacatga agaggaaatc tctgaactta aaggagaaat 180

tggctttctg aattctaaac cggaaaatat gacaaagtca ataaagatgc tgaataaagg 240

ctcagatgtg ctcgatgagg tgctacagct tgggaagaat gttggaaacc agagaggact 300

tggatttaat cataagtctg gtggcagaac aaccatgaca gaatttgttc ctgccaaaaa 360

cagcactgga gccacgatgt cacaacattg gtctcgacat catggaacgc 410

<210> 4659
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4659

agcttntaga ttggtgtacc atgccacagc tgttccgggt aagccgtctt gaaagaagtg 60

cattaacagc tttttcgtcc gtagaatatg cccccatcct tcggcaatac atgcgaagat 120

gacctttttgg acacgtcgtc cctttgaatt tatcaaaatc tggtacttta aacttggggg 180

gaataatgat gtcaggtacc acacatagat ccggtaaata caagaacgga tagttgccga 240

ggccttctac cgctctcagc ctctctttaa gtagatcaat ctttccccttg tcccttgcaa 300

agggaagaag ttccttaacg ggtgcggatg gagaccggac gtggcggact atgtctggtt 360

ggggcaactc atgggggggct gagtcct 387

<210> 4660
<211> 370
<212> DNA

<213> Glycine max

<400> 4660

agcttgatga taaaagtgag aagtacgtgt ttgtgggtta ccactcaaga tccaaggggt 60

acaagctcta tactcccaat agtagaaaga tcgtcataag tcgcgacgtg gagttcgacg 120

aagaagattg ttgggattgg agtgttcaac aagataagta tgattctctt ccttattttg 180

aagaagatga tgaaattgaa cccacccatc atagaggaac atattacacc acctgcctca 240

ccgacaccaa ggctggatga aacaagttca agtgaaagga caccgcgact aaggagcatt 300

gaagagattt atgagctaac ccaaaaccta aatgacatta acctcttttt tctttttggg 360

gactgtgagc 370

<210> 4661
<211> 429
<212> DNA
<213> Glycine max

<400> 4661

tcattccttt tttcactcat gtgtccaagt ctttgatggc atagggttga attgttgaca 60

gcctcagtaa ctgctaccat atcctcatct gcaatcatgt aaagagatcc tcgcttcttt 120

tcacgagcca caatgagatt gccttttgtt accttccaag ctctatatcc aaaagtggtg 180

taatgcccct cattatccaa ctaccctata gatgttagat ttccctttaa ggcaagaata 240

tgtcaaacat tgtacagtgt ccatagggat ccactagagg tcttgatgtc aatatcacct 300

cttccgacaa tgtcaagaga ttttccatct gcaaggtaaa ctttctcaaa tcttccaaaa 360

atatagttag aaaataaatc tttaaaggga gtggtgtgga atgacgcacc tgattcataa 420

tctatgaat 429

<210> 4662
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4662

gcaagctttt acaaaaggtc tgccccatat ttttctatac ttgtagcacc acttgttgag 60

ttggtgagga actatgttct ctcatgggaa gatggncagc aaaggggttt ttagtcctta 120

ccctactcta acatacccaa cataactaat acatatgttt ttattctttt tacaggtgtt 180

gaggaaagaa tccctgagtt tcaagaacct ctggatttga ggtcaaatcc ttttcaaggg 240

agagggaatg atgcaatcct accccacaag gtcattggat agaagactcc aagaagattg 300

ggccagagat ggccctaggg ttctcatgag ccttagggta gatttcgagc ccatggacta 360

aatatgagcc cacttatctt tgtacatatt aaattaaggt ttcattattt tttg 414

<210> 4663
<211> 446
<212> DNA
<213> Glycine max

<400> 4663

agcttatgct gcaaatattt acaatagacc tccttaacct cagcagcaaa atcaaccaca 60

gcagaacaat tatgaccttt ccagcaacag ataccaccct ggatggagga atcaccctaa 120

cctcagatgg tccagccctc agcaacaata gcagcctgct tcttccttcc aaaatgctgc 180

tggcccaagc agaccataca ttcctccacc aatccaacaa cagcaacaac cccagaaaca 240

gccaacaatt gaggcccctc cacaaccttc cctcgaagaa cttgtgaggc aaatgactat 300

gcagaacatg cagtttcacc aagagaccag agcctccatt cagagcttaa ccaatcagat 360

gggacaatta gctaccccaa ttgaatcaac aacagtccca gaattctgac aagctggcct 420

tctaaactgt cccaaatccc aaaaat 446

<210> 4664
<211> 436
<212> DNA
<213> Glycine max

<400> 4664

tgacactaaa catctaggta aacttccagt ctaaagattt gatgataaat ccactacatc 60

aagctcataa ttgcacgaaa gattctcgaa aagcatcccg ggtaatttgt tcccagaaat 120

atttcagata agtaatagaa ggaagtgaca acaatcctgg ttgaaaaggc cccacaaatg 180

aattcgatga aatatccaat cgctcaagct gatagtatga actcaattta gcccgaatac 240

cacacctgaa gctatttttt cttacaacta gtataaccaa cctgttaccg agctgacgaa 300

actgcggtcc aaaagcatta tcattcaatt caagcacttg aatattcgtc aaacggctta 360

aatcacgcac cggccccata aagggaatat tataaagtga aaagggtctc aaattctcca 420

cattaccaag cgaatt 436

<210> 4665
<211> 529
<212> DNA
<213> Glycine max

<400> 4665

tgcattacct cttagtaggt ggtgtaagct ctattggagc ttgtatgcct atgatcttct 60

tcattaatgg atttctttgc ttcttggaag atgaatggcc gcggaatgga gaaggaagag 120

agagaggaga tgccacttaa aggagaagat gagtctagaa gaagctcacc accataggag 180

gccatggata agagcttgga ggaagaatga ggataatgaa aggagaggaa gcgaagagca 240

tgaaattttg tgctctaaaa gagctctgaa atctgaagtt taattttcaa atcatcaaag 300

ttgaaaaaaa tgcacacaca tgacctctat ttatagccta agtgtcacac aaaattggag 360

gaaaatttga atttcacttg aatatgtgga gccaaacttt ggagccaaaa tttcactaat 420

tatgataagc gaattttaag tatggtgttg cccacctatc ccagatcaat tccaagattc 480

tccactaagt gtgcttaggt gtcatgaagc atgtaaagca tgaacgaca 529

<210> 4666
<211> 531
<212> DNA
<213> Glycine max

<400> 4666

tttcttaaaa atccaaaaag ctagagctta tttacatacc tctctaatag ctaagctcat 60

ccccatgaca aaatacatga aaatacaaaa taaaaatccc tattataaag actactcaga 120

atgcctcgaa atacaaggct aaaaccctat actactagaa tggacaaaat acaaggccca 180

aacaaaggaa aaccctattc taatatttac aaagataacc ggcctcatac ttagcccatg 240

ggcttgaaat ctattctaag gctcatgaga accctaagac ctttccttgg atctctggcc 300

taatatactt ggagtcttct atccaatgcc cttgcggggt aggattgcat caacttcctt 360

ggcttcttgt acaaccattc tttttagctc tgagggaaaa ccccaattcc taattttccc 420

atccttaact tgtgttacca gggggataaa aggaacggct agctcctcgg tttcattacc 480

ttcacaagac tcattatccg atctataccc ttttatcgca acaaaaaaaa a 531

<210> 4667
<211> 456
<212> DNA
<213> Glycine max

<400> 4667

tcacacagtt tatttttctc atacttgagt tttggaagac caatttctaa gactttccta 60

actagaagaa taagatgatg catattaatg tgtgcatccc tacgatgcca caaccaagaa 120

tcatctattt tacttaccaa gtaactcaac tcatgaaatg atgcatgctt aacattcagc 180

atatagatat tacctattct cttgccaatg tggacaactt tatcggacat ggcttcactt 240

gtaagacaac aatttttgtt gaattcaatt ttgaagcctt tgtcccaaag ttgactaatg 300

cttaaaaggt tgtgttttag tccatccaca tataacatgt tctttatttg agttttgtgt 360

tgatttccaa tatttccttc tcctattatt tttcctttgc tattgcctcc aaatgtgaca 420

tgtcctccat cttttgacac aaagtcagag agttta 456

<210> 4668
<211> 515
<212> DNA
<213> Glycine max

<400> 4668

agcttatgct gcaaacattt ataatagacc tccttagcaa caaaaccagc cacaacagaa 60

tcattatgac ctttcaagca atagatacaa tccaggttga agaaatcatc ccaatctgaa 120

atggacaagt cctccacaac aacaacaaca tattcctcct tttcagaatg ttgctggtcc 180

aagcaagcca tatgttcctc ctccaatgca gcaacagcag cagcaatcac aacaaagaca 240

acaagcaact gaggcctctt ctcaaccttc cttagaagag ttagtgaggc aaatgaccat 300

ccagaatatg caatttcagc aagagacaaa agcctccatt cagagtctga caaataagat 360

ggggcagatg gctacttaga tgaaccaagc tcagtcccaa aattctgaca aattggcttc 420

acaaactgta caaaatccaa aaaatgtgag tgccattacc ttgaggtctg gcaaccaaat 480

tcaagtggcc tcaccagtag cagcacctgc acctg 515

<210> 4669
<211> 544
<212> DNA
<213> Glycine max

<400> 4669

ttgatggtgt cgagaagaaa tcacatgttt gtcatcatca aaaaggggga gaatgtgaat 60

gtatgtatac atgattttga tgatgtcaaa gaagaatcta acaaggctac ttcaaatgat 120

aagcatttgc ttcaagaata attcaagatt gcttcaacaa acaaagcctt gtttcaagat 180

tcactaaaga ccaagccttg ccttaaaaca aagtgctttc aagacatgca aggctctggt 240

aatcgattac caggaagtgt aatcgattac ccgaagcacg gttgagaaat agctgttgaa 300

aaaggttttg aatttgaatt ttcaacatgt aatcgattac catatgtctg taatcgatta 360

ccagcaacga aactttggaa catcaaattc aaaagtcata acccccttcaa ttataactgt 420

gtaatcgatt acacaaacat tgtaatcgac taccagtgga aagtttttag aatatctgcc 480

accgccacat cttttcatta gatttgtgaa tggtcatcaa aagcctaata ataggtgact 540

tggg 544

<210> 4670
<211> 273
<212> DNA
<213> Glycine max

<400> 4670

tacttaagct ttatcctttg gatctttaag tgtcgagttt ggggaatttg atttatctca 60

tccagcgcca gtgttgcaac ccacatactc acactgcttt ataaacatga aggctgtccc 120

agttttctac caagttccgg attgaagagt taattttgtg tagtttttgg gactctgaac 180

tgtttttgtg agccaccttg atgtcaccct aacatcaagt gttggacctc actgtgtaaa 240

gttgatctct ttgttagaaa agcacctctg gtg 273

<210> 4671
<211> 248
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4671

agcttggtca cntnctttttt caccacatcc agaatgatta tgttgagtcg cccgctgtgg 60

ctgcctcact ggcttatctt catcctctaa aagcatccca tgcatgccgg tagatgggct 120

aatactagga atgtttgcta aagtccatct aatggctttc ttgtgcttct tgagaactat 180

caacaacctc tcgtcttgct taccagcaag ggaggcacag atgatcactg gacaattttt 240

cttgtcct 248

<210> 4672
<211> 461
<212> DNA
<213> Glycine max

<400> 4672

agctttgatc cgcctctata ttttccacaa tttcattttc tctccagata atgagcttct 60

ggggaagggt agatgggaca gccccaactc catgaatcca cttccttcct aatagcaagt 120

taaaattagc cttagactgt atcaccacga aaagagttgg tcgaactata ctgcctacag 180

caacatctac ttgaatggct cccaaagaat agtcagcttt accctcataa ttccaaagca 240

caatgttgtg ggcagataga tcagtgtcat gtttcccgat cttgtagagc atagatcgag 300

gcattaagtt gacagccgct ccttcatcaa tgagcacttt gttgattcca acattctcaa 360

ctcttgctct gatgaaaaga ggtttgagat gacttttttat ctgaaaatct ggcttttcga 420

aaaaagctaa tttgctcttc ccccacaccc attattcata a 461

<210> 4673
<211> 355
<212> DNA
<213> Glycine max

<400> 4673

tcaattctga atttcgagcg tctcgatata ctatgggaca ctttcggacg tctgagtaag 60

aagttattgt cgttttgaat ttgcatagag cttttgtttt caatttcgag cgtctcgata 120

tattacgaga gtcaatcgga cctccgagta aaaagttgtt gttgttagaa tttgctcaaa 180

acttcttttc tgaatttcga gcgtctcaat atactacggg acacaatcgc aaatcagagt 240

aaaaagttat tgtcatttga ttttgctcag agcttctgtt ctgaatttcg tgcatctcga 300

tatactacgg gacacaatcg gacattcgag taaaaagtta ttgtcgttag atttt 355

<210> 4674
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4674

ttggagcttc tctgatggac tatgatatct tgacaatgtc acttgcacca agtgatgaac 60

atcaatctca agtacagttt gccctagaaa ggggactccc agcattgctt ggtgtactaa 120

gcattcacag gctaacattc ccttcaagat catttgatat ggtccattgc tctagatgcc 180

ttgtcccatg gactgattat ggtattactt taatcttttc acttaaacat taaatgtatg 240

cattagaaaa aatatatttt tttaatttcc tacttccatt ctgagtgttg gaaagttcta 300

ggtcccctgc gtcagttatt gggatgcttt atatatctaa tgggcatttt tatttagtgt 360

taattggntt tgacacggaa tctaaca 387

<210> 4675
<211> 380
<212> DNA
<213> Glycine max

<400> 4675

tggagaggtt tcttccattg gtagagttca cttataataa cagttttcac tctaccattg 60

gcatgactcc ctatgaagct ttgtatggta taaggtgtag gacaccccta tgttggttag 120

agcacggaaa aggcctcacc ttacgaccag aagtggtaca gtaaaccact tagaaagcta 180

agctaattta ggaaaggatg agaactggtc agagtacgca gaaaagttat catgataaga 240

ggaagaaaga tctggaattc gacggtggtg atcatgtatt cttgatagtc actccatgga 300

ctggggttgg gcgagcattg aaattccgaa aacttacacc tcgcttaatt ggtcctttcc 360

taaatcttaa taaagttggc 380

<210> 4676
<211> 406
<212> DNA
<213> Glycine max

<400> 4676

agcttctgcc actcactgtt ctaaattgag cctctacaac atgtcatgcg cagtgccaaa 60

atcctttgta aatatctcct atctagtcac actacatgtt ataagttagg gcttgaatgg 120

ttcttttcca aaagatatct tgcaaatatc aacgttgaag atgcttgact tctcagacaa 180

acaagatctt gggggttctt tgccaaactt cccacaacat ggttctcttc atgacctgaa 240

tcttagctat acaaatttct caggagagct tgcaagtgca atttccaatt tgaagcaggt 300

atttgcaatt gatctatctt actgccaaat taatggtaca ccttctaatt cattctcaga 360

actcatccaa cttgcttatc tagacttgtc ttacaataac tttaca 406

<210> 4677
<211> 301
<212> DNA
<213> Glycine max

<400> 4677

agcttctcga tatattatgc gcctgaatcg gatttacatt tgaaaagtta tgaccatttg 60

aagttctcga gagcttccgt tgttacattt cgagcatatc catatattat gcgcatgaat 120

cggactttca ggcgataagc cttgacccta tgaatttctc aagagctttc gatgataaat 180

tttgagagtc tcgatatatt atgagcctga atagctgtac cgcgtgaaaa gttatgacag 240

tgtgagaccc tcgagagatc tcgttgtata attgagagag actaagtata ttaagcgccg 300

g 301

<210> 4678
<211> 444
<212> DNA
<213> Glycine max

<400> 4678

agcttatgcg gcaaacatct acaatagacc tcctcaacct cagcagcaga atcagccaca 60

acagaacaat tatgacctct ccaacaacag gtacaatctc gggtggagga atcatgccaa 120

acagcatcaa caacaatctt attttcaaaa tgctattgcc ccaagcagac catacattcc 180

tccaccaatc cagcaacaac aacagcaaca gccccagaaa cagcagacag ttgacgctcc 240

ttcgcaacct tcccttgaag aacttgtgag gcaaatgact atgcaaaaca tgcagtttca 300

acaagagacc agagcctcca ttcagagctt aactaatcag atgggacaat tggctacaca 360

gttaaatcaa caacagtccc agaattctaa tagattacct tctcaatctg tccagaatcc 420

cgataatgtg agtgccatac attg 444

<210> 4679
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4679

agctngtagg gttaaagtct cacaattgtc acgtgctcat gncaaaaatg ttagtcgtgg 60

ctatacgaga catcttgcca aacaaagtca ggttagccat aactcgcctg tgctttttct 120

tccatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagctg gaaaatgagg 180

ccgcaattat actatgccag ttggagatgt attttccccc tgctttcttt gacatcatga 240

ttctcttgat tgtgcatctg gtcagagaaa tcaaatgttg tggtcctgtt tatctacggt 300

ggatgtaccc agttgagcga ttcatgaaga tcttaaaagg atatacaaag aatctatatc 360

atccagaagc atctattgtt gagaggtaca ttgcagaaaa agccattgta atttgttcag 420

aatacattca gaaggctaaa cat 443

<210> 4680
<211> 443
<212> DNA
<213> Glycine max

<400> 4680

ttacacatat actgtaatcg attaccagag tagattctta taatatattc tcaacagtca 60

catcttttta tgtggttctt gaatgactat caaaggccta tatatatgtg acttgagaca 120

cgaatttgcg aagagttttt cagaacaaaa aggtcttatc ctcttataaa gaaaaatcgg 180

tttatcctct tacaaattcc ttggccaaat tacttatgat tcaataagga attatttgag 240

tgctcaaatt gttcaatcta tctctttcaa gagagatttc ttcttttctt cttcttcatt 300

ctgaaaaggg attaagagac cgagggtctc ttgttgtgaa agaattctaa acacaaagga 360

agggttgtcc ttgtgtgttt agaacttgtt aaaggaactt acaagatagt ggaactctca 420

agcgggtctg cttgtgactg aac 443

<210> 4681

<211> 433
<212> DNA
<213> Glycine max

<400> 4681

gcttagatga tgcagctgag tttgtagcta cctcatgcac tcctctaatg actatagcat 60

catttctggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa tttctggctt 120

cagcaggagt catgtctcca agggctccac accactggca gcatttatca tacttctctc 180

catattactg agtccttcat aaaaatattg gagaagcagc tgctccgaaa tttgatggtg 240

agggcaactg gcacatagtt ttttaaatct ctcccagtat tcatacaggc tctctccact 300

gagttgtcta ataccttaga tatccttcct gatggttgtg gtcctggaag cagggaaaaa 360

aatttctaag aatactctct taaggtcatc ccagctcatg atggaccttg gagcaaggta 420

atacagtcag tcc 433

<210> 4682
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4682

ctaagctngg tacaattctc tcatcctatc ctccaactcc catgtagaat caccctcatc 60

ggttccccac tgcaccttca ccaacgcgat ctcctttcct ttcaacgact tcattcttcg 120

gtcagtgatc ttctgaggtt gtgctttata ggtgaggtta tccttcacct gtacctcgtc 180

cactgcaaga atatgtgatg gatccgggtt gtaccgtctc agttgagaga catggaacac 240

agggtgcaaa ttcgataaac tcggaggtaa ggcgatatga taagctacag gcccaatctt 300

cttcaaaatc tgatatggac ctagatactt gggtgtcaac ttcctagcct tgagagctct 360

tccaactncg gttatgggag aaaccttcaa aaacacatgt tcttcttcct gaaaatctag 420

tgggttccac cttctatcat aatagctctt c 451

<210> 4683
<211> 355
<212> DNA
<213> Glycine max

<400> 4683

aagagcagtt tccaacaaaa aaatggaaga ggcagagaaa gagatcttgg aaacgtttag 60

aaaagtagag gtaaacatac ctctgttgga tgcaataaag caaattccaa gatatgccaa 120

attcttgaag gagctgtgca ctaataagcg gaagcttaaa ggaagtgaac gaattagcat 180

gggcagaaat gtcttcgcat tgattggtca atctgttcct caaattcctg aaaaatgcaa 240

agatccaggt acattcagca taccttgtat tatagggaat agtaagtttg acaatgccat 300

gctagattta tgagcctctg ttagtgttat gcctctgtcg atttttaatt ctcta 355

<210> 4684
<211> 431
<212> DNA
<213> Glycine max

<400> 4684

gctttatctc agtagtagta taatgtgctt gatcatcatc tcacgtccta taagcataat 60

atatcaccct gcgcaattta tcaatttttt gagcaaggac agcccccaat gcataatttg 120

atgcatcaca cataagctca aaaggggctg tccaatcacg tgcctggatg atgggggtgg 180

tagtaaacgc tcttttgagg caatcaaaag cctctttgca tctgtcatta aagtcaaact 240

ccacctcctt ttgcaacaag ttggacagtg gaagggctac tttgctaaaa ttccttacaa 300

agcgcctgta gaatcctgca tgaccaagaa aagatcgcac ctctcgcaca caatagggtg 360

taggcaattg cgaaataaca caactctttg caggatctac ttcaataccc ttattggaaa 420

taatgtggcc t 431

<210> 4685
<211> 432
<212> DNA
<213> Glycine max

<400> 4685

agcttaccag tgccatattc actgcaactt gctggtatat aagatacaaa gaaaatcaca 60

tgcatttgca aataaacgtg atgatattct aactggacaa tgttctgtca tgcattccaa 120

tattccatga tctttgctat tatttttagt gatatattta tatatatgag atatgtgagt 180

ttgcgtttat gttttgaaga taaggagtat ggaccaagaa ctgtaaaaga tttgaagtta 240

attagtgccg gataaatatt ggagaacaac agaacagtgg gagaatgtca gagtcccctg 300

tgtgatctac ctggtggagt tataacaatg catgtggttg tgcaaccacc ttctgtgtga 360

gaagggttag tattactata tactcgttta tttataggca tgccacacag tctgtttact 420

cgtatataca gc 432

<210> 4686
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4686

tagaaactaa gctggattcc tanatgtaca actgancatg gtgtttatat aaatgtcatc 60

aatactacta acttgactgt agtgtgcctg tatgtagatg acttgcttgt gacatgttat 120

aatgagacta aaattgccaa cttttaagga gagatgatga gagaattcga tatgactgat 180

ttggacctta tttcttattt tcttggaatt gaattctaga gagctgatga aggagtgatc 240

atgcatcaat ggaagtatgc aagagatgta ctgaagaagc tcatcatggt tgactcgaat 300

tctgcagaca catccactgc cactggtgtg aacttggtga aagatcctaa tgaagaagac 360

atagatgtac tctgtatata cacatggtgt gctcactgag gtatctttag tgtactagac 420

ctga 424

<210> 4687
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4687

ctaagcttta gccactacag atatttcctc aaagatccca acggttaaat catggtaaat 60

tgtcttgtga agttgaaaac caaatttaga gaagatccaa cggttaacga aggctggaca 120

gtgtttctac cgaggcagct tcatgtagtt ttctctagaa gcttcattaa gaggcttcct 180

ccagaagctt cattaagagg cttctagcac actacagaca tcttctaaac gatcccaacg 240

gtcagatcat ggaaaagttt tttgtgaagt tgcagaccaa atttcgagaa gatccaacgg 300

ttaatgaagg ctgggcagcg tttttaccga ggcagcttca tgtagctttc tctagaagct 360

tcattaagag gctttctcta gaagcttgct cgtggcttct atgagaagct ctctgaagag 420

gattctttga gaagctacat ncttatctat 450

<210> 4688
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4688

agcttgtagg attttgtgat agtggatttg ccggagatgt tgatgataga aaagtactac 60

cggatttgta ttttttatgg gtgattgtgt ttttacatgg agttctaaga agcaagacat 120

tgtgacactt tttacttgtg aagccgagta tgtagctgca acttcttgca catgtcatgc 180

catttggctt agaagattgt tggaggaact tcagttgttg caaaaggaaa gcacaaagat 240

ctatattgat aatagatctg cacaagagct tgccaagaat ccggtgttcc atgaacgaag 300

taagtatata gatacaaggt agcatttcat tagagagtgc attaccaaan aagaagtaga 360

attgactcat gtgaaaactc aagatcaagt tgcggatatt ntcaccaagc ctcttcaaat 420

tgaa 424

<210> 4689
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4689

agcttcacaa ggagttacat caatgaacat cacaaaataa accccaattt gatactctaa 60

ggatccctac acatgttcat tttaacccaa attgcaataa actcatccct tatctctaag 120

cgggctcacg ggtgcagctg gcagggatat caacgtctct agtggttccc taagatttct 180

gaaatttttc ctctgtttgc tttgttaggg tttccaagtg ttagagagaa ggagaagaaa 240

ttggagcctc caattcactg tatatgttca atgagaattt ctccctccat agacattact 300

ttacaaatcc caacactaga catgtgtaga aattagttcc aaaggtggtg tccaaatttc 360

actaggatcc aacagttaac aagtccggga tcgtagttnt cttgggatgg gtttggatgt 420

atatgggaat gagatcctaa tctc 444

<210> 4690
<211> 423
<212> DNA
<213> Glycine max

<400> 4690

atacaagaat gaagctctga taccacctgt tgtacaagtg gcctcaaata tcttaagaag 60

gggggttga attaagatat tacaaattat ttcccccaat tacaaattct actttgattc 120

caatacaagt tccaagttcc cttaaagatg gatttctaaa caatgattca aattaaacaa 180

tctgaatata aatgtaaagc aataataaca taaaagagtt taatggaaga gaaagtgcca 240

actcatattt atactggttc ggccacaccc ttgtgcctac gttcagtcca caagcaacct 300

gcttgagagt tccactatct ttgtaaatcc ctttacaagt tctgaaccac acaatgacaa 360

cccttacttt gtgttctgat ttgtttacat caagagaccc tccgtctctt aactcctttt 420

tga 423

<210> 4691
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4691

agcttgtaaa ctagccatgg tctagctact tgcataccct gagggatgac catgtagact 60

tcttcattta aattaccatg taagaaaaca ttgttcacat ctagttgttt gagatgccac 120

ttattaatag cagctaaagc caataaaaat ctcactatgg ttagtttaac tactggagag 180

aaagtgtcca ggtagtcttg ttcttccacc tgagtatacc cttttgccac taatggcttt 240

atacctctct atggaaccat cagatttgtg attgatctta tacacccatt tacaatcaat 300

tatagtcttg tgatgaggaa gatcagtgag aacctangta tcattaagct ctagtgcttt 360

gatctcaaca ttcatggctt caatccaatt aggatcctta gatgctccac tgtataactg 420

aggttcaaca ctctgtgtga t 441

<210> 4692
<211> 454
<212> DNA
<213> Glycine max

<400> 4692

agcttcagta aaatgggaca gctggcctag atgatgcaat cctacccccc cccccaaggg 60

cattggatag aagactccaa gaagattggg ccagagatgc aagagaaggc cgtaaggttc 120

tcatgagcct tagggtagat tttgggccca tgggctaagt atgagcccac ttatctttgt 180

acatattaga ttaggatttc attatttttg ggtcttgtat gtagggcttc ataatgtagg 240

tagggtaccc tagaaatgta ggatttttca gcccttgtat tttagggcac ctagactagt 300

ttttgtatta cgggtagttt tgtaatttca catgcattaa gtgaatattt gatgtgtgtg 360

ttgagaaatc aatttaattg aattgggaga agcccaatcc aattataatt tagaggggga 420

ggtgagcatt tgcttgctgc acctcattgc caca 454

<210> 4693
<211> 430
<212> DNA
<213> Glycine max

<400> 4693

agcttcggtc ttcaatttcg agcgtctcga catatttcgg gactcaatca gacatccgag 60

taaaaagtta ttgtcatttg aatttgctca gagctaaggc attcaagtcc gagggtctcg 120

atatattaca ggactcaatc agacatccga gtaaaaaagt tattgtcgtt tgaatttgct 180

cagagcttcg gcattcaagt ccgagcgtgt cgatatacta cgggactcaa tcagacatcc 240

gagtaaaaag ttattgtcgt ttgaattttc tcagagcttc agtcttcaat ttcgagcgtt 300

tcgatatatt acgggactca atcaaacata cgagtaaaaa cttattgtcg cttgaatttg 360

ctcagagctt tggtattcaa tttccagctt ctggatatat tacgggtctc aatcagacat 420

ccgagtaaaa 430

<210> 4694
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4694

agcttctntg agaaaacttc cttgagaagc tagagcttag ctacacacac ccctctcata 60

actaagctca cctccttgag aagcatcctt aagaagattc gtaaagaagc tagagcttag 120

ctacacatac ctctctaata gctaagctca cctccttgag atgagaagct agagcttagc 180

tacacacccc ctataatagc taagctcacc cccatgacaa anaacatgaa aataaaaaaa 240

agtccttatt acaaagacaa ctcaaaatgc cccgaaatac aaggctaaaa ccctatacta 300

ctagaatggc caaaataaaa ggccttgacg aaggaaaaac ctattcgaat gggtcataat 360

tttcacacgg atgtccgatt cggtacataa ctcatctaga cgctcgaaat tgaacaacgg 420

gagctcttga caattcgaat ggtctaacat 450

<210> 4695
<211> 431
<212> DNA
<213> Glycine max

<400> 4695

agctttaagc aaattcaaat gacaataatc tttgactcgg atgtccgatt gagtcatttt 60

ataatttgag acgctcaaaa ttgaatgcag gagctcttac caaattcaaa tgccaataac 120

tttttactcg gatgtccgat tgagtcccgt aatatatcta gatgctcaaa attgaaaaca 180

gtaactctaa gcaaattcaa acgacaataa cttctaactc ggatgttcga ttgagtcatt 240

taataattct tgacgctaga aattgaatac agaagctctc accaaattta aatgacaata 300

actttttact cagaagtctg attgagtcct gtaatttatc tagacgctca gaatcgaaaa 360

catatgctct taggaaattc aaacgaatgt aacttttgac tcagatgttc gattgagtca 420

tttaataatt c 431

<210> 4696
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4696

agctnntgca tagtttggat aaatatacac atgcgatcat gacaatgaca aaacagatcg 60

atttatgttg tgtgaatttt tcaattttgt tacggaatgt atgtttttaa tttgcgatat 120

aattcaaaca ctgaaaagat tctttttttac atttttattt aatcatgaaa tttaaatgat 180

tgagtttttg taataatcac ttanaaaatt atatttaaaa taatttctaa ttagttgata 240

gtataatttt ttttttttac aataacaaca tgttaaaagt aaaatgttaa attgattgaa 300

ttttaattnt tatggttacc tcctttacgt ggactaaact gtaatatttt ttaaacaatt 360

aagaaattta gtgtaatgta taaggagtgt tgttataata tttntaaaat aattaagaaa 420

tgttagtata ggaatagaaa aaacatggag agattga 457

<210> 4697
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4697

agctttnttc agtcgtctgt aaggatgatt gggtgttaga aaacggcgat gcctactgta 60

gactgttttt cttccatgtt ttagttgtat gtagcttgtg ttttcttcac agatggggca 120

tgcatgatga cccttaacac tgtaaccgct gagatttcca tatggtggaa agtcattaat 180

ggtacaaaaa agcattgcac gcatttcaaa cgtttccttg caaaacgcat caaacactac 240

aacccccctgg tccaacaact tttccaggtc ttcaaccaac ggacttagat aaacatcaat 300

gtcatttcct ggctgtctta ggcctgatat catcatagac aacatcatgt attttcgctt 360

catgcacaac caaggaggca aattgtaaat tactagcaga actagccatg aactgtgttg 420

agtgcttaag gtgccatatg gattcatt 448

<210> 4698
<211> 338
<212> DNA
<213> Glycine max

<400> 4698

tgaagctgac aggatcaaca atggttggtt gaattatctc cttagctggg aagacacccc 60

atgtgacagc attaacatca gtttgaccca cattagattt ccagctcccg tctttattca 120

cagtcatata agttcaagat gtttgatcct tgcattcatc aacaagtgca tccagctttt 180

ccttagagca gaagaactct acatatgcct tctggtaaac atacccgcct ggtccacccc 240

agactatgcc aaatttcaaa cacaaacgat ttactgtatc tcatatccac caaccaatat 300

ggaccagata tgaataccct catcacaaac tgcaccct 338

<210> 4699
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4699

acaaaattct tgaccgnttc cnnnttggga ccntggactt catgtcccgg agggtctcct 60

ggagatgctc ccctcactac cgttggagga ggcaaggaag gagacggaca cggtgctctt 120

cggggccgtc gacgagctct tggagaaaac cggtgttgaa gccaaagaca ttgggattct 180

tgtggtgaat tgttgctcgt tcaattccac accatctttc tctgactcaa ttgtcaaccg 240

gtacaagctt agagggaaca ttttggctat aattctagtg ggatggggtg cagtgctggg 300

gtcttgctgt tgacttggca cacagttcct cagggtctct cttacatcat ggctataaat 360

aatattcatg cattttgatt gtttactgca tacata 396

<210> 4700
<211> 417
<212> DNA
<213> Glycine max

<400> 4700

agcttgaagg aaaactggat gcattggtta acttggtaac ccagctggct ttgaaccaga 60

aatctgtacc tgttgcaagg gtttgtggtt tgtgctcctc tgctgaccac catacagacc 120

tttgcccttc catgcagcaa cctggagcaa ttgagcagcc cgaagcttat gctgcaaata 180

tttacaatag agctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240

tctccagcaa cagatacaac cctggatgga ggaatcaccc taatctcaga tggtctagcc 300

ctcagcaaca acaacagcag cagcctgctt cttccttcca aaatgatgct ggcccaagca 360

gactatacat tcctccacca atccaacaat agcaaaagca ccagaaacaa ccaacag 417

<210> 4701
<211> 409
<212> DNA
<213> Glycine max

<400> 4701

agaatcatta cgcataggca aaagatcaag aggagttagt ggattaaaac cataaacaac 60

ttcaaaagga gaacaattag tggtgctatg aacagctcta ttgtaagcaa attcaacatg 120

gggtaaacaa gcttcccaag tttttaagtt ctttctcaaa actgtcctaa gcaaagttcc 180

caaagtacta ttaacaactt ccgtttgccc atcggattgt gggtgacaag tggttgaaaa 240

taacaatttt atgccccact tgctccacaa agtgcttcca aaatgactta tgaacttaga 300

gtccctatca ctaacaatga ttcctggcaa accatggagt atcacaatct cccttgaaaa 360

caaattagcc acatgggaag cgtcatcaaa ctttttacat ggaataaat 409

<210> 4702
<211> 436
<212> DNA
<213> Glycine max

<400> 4702

atatgtatat aaaatgacat aacaaagcta ctaaaaatct aaaacataga ttaacactaa 60

tagaaatcag agactagaaa gagcagtaaa aaggtaaatc acctttggag gtttaattcc 120

aactcgaagg aagagctcag gattcattat aggcagttca attgactccc tcaattccct 180

gatctgatca gataagccac caacagctga gtagctgata ttaccaggat cttcatgcaa 240

catattgtaa actactggat caacctggca actccaacga caaagaatta gagacaatag 300

tgaccaccag ggatccaata aatcagatct tagcacaaca ggaaaagaac atgttcataa 360

aatgaaaata ttaaaataat aaactacgac ttacttctcg aggaagagct cgcattatgg 420

tgagtgttgt catatc 436

<210> 4703
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4703

atctctaagc acctgcggca tgcaagcttc tgcaattaat tntcattaca atgctaacat 60

ttcctttctt caattttaac tgatagttga agtaggaata atccatttat catactctaa 120

atatgcttag cattaatgtg acgaagaaat gtctccttgc agaaggttgg tgtcctgttt 180

ttgcaacaag tcaggttcgt ccttgaacta tgaatttaat ttctgataca ttgtgcataa 240

accttcatgt aatgcagttt ttactggctg gtatagctaa ttaatttgat tcaatacttg 300

acagattcac aaagtattgc agcgggcaac tatggactgc agttctcaag ttgtggcgat 360

attccaggtt ttagagacaa cggaatcacc acctacctat tgttgcacaa acaaattcac 420

ttcttctcaa gaaattggtg atgcctatgg gtaatttacg tagacctcag catgtgc 477

<210> 4704
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4704

ccttgtatat gcataacatc aaaatcgata ngtataggac aatcatcaaa gatgaccatc 60

tcgaatttac ccatgaattc tctcaaaaca tggttcatta atctcataaa attgcttggt 120

gcataagtca aaccgaaagg cataaccaac cattcatata atccatgttt agttttgaaa 180

gcggatttcc attcatctcc ttctttaatc cttatttgat agtaaccact tttcaaatca 240

attttggaaa agaacaagca ccatgcaatt catcacgcaa atcattaagt ctacgtattg 300

gatacctata tttaatggca atattgtgtg aagctctaca catcggagca cattctccag 360

aaccatgtct ctttgaaccc aattccccga cagcacatgg acta 404

<210> 4705
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4705

agctntgatn ggtttgagaa gaaatcacat gtttgtcatc atcaagaagg gggagaatgt 60

gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaaacaag gctcattttg 120

cttcaagatt aatacaagat tgtttcaaca aacagagcct tgattcgaga tttcttcaag 180

atcaagcctt gcttcacaat gagaggtttc aagtcattca aggcacatgt aatcgattac 240

caatacatgt aatcgattac caatggtttg aaagtgtgta atcgattaca catcatatgt 300

aatcgattac cagagactct gaacgttgag aattgaaatt ttaaatgaag ggtcacatct 360

gttcaagcat aataattgtg taatcgatta cactaatttt gtaatcgatt accagagcgg 420

attttcaagg aatatcgcca acagtcacat cttt 454

<210> 4706
<211> 358
<212> DNA
<213> Glycine max

<400> 4706

cagctattct tggtgggttg atgtactcta tctcgcagaa tggcatgatc actggcagac 60

atagtcataa tcaattcact tgcctcttta gggattctca actttatctt ccctcctgct 120

gaagcatcta acaactgctt gggttgcggt ctcagcccat ctataaacat gttcaataga 180

attggctcag agaatccatg tgtaggagtc tttcttaaca aacctcgaaa cctctccaat 240

gcttcactca aagactcatc atggaatggg tgaaatgatg aaataacaac tttcccttct 300

gcagtctttg actcggagaa gtatttcttc agaaattact caacaacttc ctcccacg 358

<210> 4707
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4707

tttcatcgtc attctgggca tgtacaagag ccgtggttat gcgatcataa ccttttttaa 60

tgtgcttgaa taaatattcg acggacattg attgattgca ccattctatg ttgaggtgag 120

cctgatattt caacaataag attggattgt atggtaccac gtatctatcg tctanggtta 180

ttccattttt atctatattc ttactatcat tatgccttnt ataaatagga tattcctctt 240

gctcaacaac agtttcaggt ngctttttct ttgaaaacat ctacaacatg tttcatgcat 300

ggcgactctc tatttgcact gacacatgaa tcatgcatat acgattct 348

<210> 4708
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4708

agctnttgcc caatgaactt ttcttgacaa agcatatgtt gaacaaaaac tcttagaaag 60

atgttaagaa taattttctt gaaattcgtg tcatggtcac gtattatagc catttgatgg 120

ctcttgaaga aaccatgtta aaagttgtga ctcttggcaa tttcttcaaa atcagtcact 180

gataatcgat taccataatg gtgtaattga ttacacagtt tattttatca aaggttgtga 240

ctcttcatgt tgaggtttga aatctaacgt tcagaatcac tggtaatcga ttacaaatat 300

tgtgtaatcg attacattat tttgaaaata cttttgaacg ttacaagaca atggtaatcg 360

attgcatgcc catgctaatc gattactact tggttaatca attataaaac t 411

<210> 4709
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4709

naagctatgc tgcanacatt tacaatagac ctcctcaacc ttagcagcaa aatcaaccac 60

agcagaacaa ttatgacctc tncagtaaca gatacaacct tggatggagg aatcacccta 120

atcttagatg gtctagccct taacaacaac aacagcagcc tgctctttct tccaaatgtt 180

gctgcccaag cagacatata ttcctcacca atcaacaaca acacagcccc agaaacagaa 240

acagtgacgc tctcgaacct tcctcgagaa cttggagcaa tgactatgca aaatgcattt 300

aacagagaca gacctcatca gagttactaa tagatgacaa tgctacacat aatcatacag 360

tcc 363

<210> 4710
<211> 311
<212> DNA
<213> Glycine max

<400> 4710

agcttggaag gtagtcttac ctcacaaata tatatatgta tgtttaggtt tcttgatacc 60

ttggatatgc atgtatgtgg caaaaaatac ctcacaatat atatatgtat gtttaggtaa 120

cacgatacct tggatatgca tgtatgtggc aaagaatacc tcacaatata tatatgtatg 180

tttaaggagc aagatacctt ggatatgcat gtatgtggca aaaaatacct cacaatatat 240

atatgtatgt ttaggtagca agataccttg gatatgcata tatatagcaa aaatacctca 300

caaaaatata c 311

<210> 4711
<211> 132
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4711

gctctcgaga aattcaaatg gtcatttact tatcacacct aagttttatt cangcgcata 60

atataccgag acgctcgaaa ttgaacaacg gaagctctcg agaattctaa tgggccttac 120

ttatcacacc aa 132

<210> 4712
<211> 322
<212> DNA
<213> Glycine max

<400> 4712

actagctatg tgacatttgg agatggctct aaaggaaaga tcattggaat gggaaagcta 60

gtccatgatg gaccttctaa tctgaacaaa gtactgctgg tgaagggact gactgcaaac 120

ctgatcagca tcagtcagtt gtgtgatgaa ggattcaatg taaacttcac aaagtcagaa 180

tgcttggtga caaatgagaa gagtgaagtc ctaatgaagg gcaggagatc aaaggacaac 240

tgttacctat ggacacctca agataccagc tactcctcca catgtctatt tctccaagaa 300

gatgaagtca gaatatggca tc 322

<210> 4713
<211> 304
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4713

gagcgtctcg atatattacg ggactctatc atacatccga gtaaaaagtt atggccgntt 60

tgaatggctc agaggttcaa aattcaattt cgagcgtctc gatatatttc gggactcaat 120

cagacatccg agtaaaaagt tattgccgtt tgaattggct cagaggttca aaattcaatt 180

tcgagcgtct cgatatatta cgggactcaa tcagacatcc gagtaaaaag atattgtcgt 240

ttgaattggc tcagaggttc aacattcaat ttcgagcgtg tcgatatatt actggactga 300

atca 304

<210> 4714
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4714

ctgcagcttt gagccattct acgatataac tttttatctc gatggccgat tgagtctcgt 60

aatatatcga cacgctcgaa attgaatgtt gaagctctag gcctattcaa acaacaataa 120

cgttttactc ggaagtncga ttcagtgacg taatatatcg ggacgctcga aattgaatgg 180

tgaacctctg agccaactca aacgacaata acttttttact cggatgtctg attgagttcc 240

gtattatatc gagacgcttg aaattgaatg ttgaacctct gagccaattc aaacgacaat 300

atactnttac tcggattgtt gatggagtcc cataatatat cgagacgc 348

<210> 4715
<211> 288
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4715

gctctcgaga aagttttatg gttattactn ttcaaacgca agtctgatta aggtgcataa 60

taaatcgaga agcttgaaat tgaacaacgg aagctctcga gaaattcaaa tgggcattac 120

atatcacacg gaagtccgat tcaggcgcct aatatattga gacgctcgaa attgaacaac 180

gaatgctctc gagaaattaa aatggtcata acttgtcaca cggaagtctg attcaggcgc 240

ataatatatc aagacgctcg aaattgaata acggaagctc tcgagaaa 288

<210> 4716
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4716

agctntntca aaatccactt taaacaccaa gcacaatttc tttagcctnc tatcctnctc 60

aacaaccttа ttagcaatca agactccatg caacaactgt ctacccttaa caaatgctga 120

ctgtctttca tcaacaaagt gattcaatac cttactaagc ctattagata ggactttagc 180

aataattntg tagacacaac ctatgaggga tatgggtctg aaatcactta tatgtcgagg 240

atccttgagc ttaaggataa gagcaatgaa tgatgaattg aggcccttag gaaaagcagc 300

attcacatga aattctgcca aaaaccttaa gaaactcaag ttcagctcat tccataaatg 360

cttaataaat atgaaattaa acccatctg 389

<210> 4717
<211> 214
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4717

agtgctngaa agaatcaatg acantgcttt actaagtgag ctgcccggtg agtataatgc 60

tagttccacc ttcaatgtct ctgatttatc tctttttgat gcagatggag aatccgattt 120

gatgacaaat ccttctctag agggagagaa tgatgacgac atgttcaaaa gcaagggcaa 180

cgatccactt gaaggacttg gacgacctat gaca 214

<210> 4718
<211> 208
<212> DNA
<213> Glycine max

<400> 4718

tcagatatct taagaagggg gggtgaatta agatattacc aactatttcc ccgattaaaa 60

ttctatttca ctttctattc aaggtacaaa ttcccttaat aatgaacttc ttaaatattg 120

attcaaatag aaaaatttgg atattaatat taaaccaata ttaattaaag agttttaggg 180

aagagaaagt gccaacttag atttatat 208

<210> 4719
<211> 293
<212> DNA
<213> Glycine max

<400> 4719

ctcagctgga ttcctttagt agggaatcta ttcttcctaa gatggttcca aacccagtca 60

ccctcattaa gaactagctc ttttcttcct ctattgcctt tagttgaata cacctttggt 120

tgattctcta tttggttctt aaccctctca tgcatcttct ttacaaattc tgacctagat 180

tccccttctt tatgtataaa agaagtgtcc agtgggaggg gaatgaggtc taacggtgtt 240

aggggattga acccatagac aacctcaaaa ggggactgct tggtggttct atg 293

<210> 4720
<211> 328
<212> DNA
<213> Glycine max

<400> 4720

tcttaagaag ggggggttga attaagatat tccaaacttg ctcccctaat taaaaatcta 60

tttcactttt tactcaaatt atgaatttcc ttaatgacca tcttccttaa tatttattca 120

gatgaagcaa cttgaatatg aatataagcc ataataaatc aaggagatta acggaagaga 180

aaatgcaaac ttcagtttat actggttcgg ccacaccctt gtgcctacgt ccagtcccca 240

agcaacccgc ttgaaagtgc actatcttgt aaattctttg acagttctaa cacacaggac 300

aatcttcttt gtgttagaat ccttacac 328

<210> 4721
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4721

tcctcgtggt ttctttgaga agctntctca agaagcttct tttagaagct agatccttat 60

ctatccacac ccctctatta actaaattaa cttccttaaa aataattatg gatgaaaata 120

acgcaacaaa taatcaaaca tcaaatataa ttactatata tatatatata tatatatata 180

tatatatata tatatatata tatatcaggg tgttacaact ctcccaccct tttagaaatt 240

tcgtcctcga aatttacctt actcaaacaa ggatgggtga gcttctcgca tctgactttc 300

taattcctac gtggcatctt ctcctgatgc acctccccag atcaccttga ccaacggaat 360

ctcttttcct cttaagtgtt tggtcgccta tcctcgatcc tcaaaagcaa tggttcatat 420

gtcaaattct ccttcacttg tacatcatcc aattcaatca catgg 465

<210> 4722
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4722

agaaaacatg tgggccatca tcgaccaata caaggaaaag ttaagcctag cggtcactca 60

caaacaaagg ctataggacg actgcgtgaa agtataagtc ctgcaagtgg aaagggaagc 120

aagggaaagg gtgatcgatt cattacacag agaagcaatg atgtggatgg ataggttctc 180

ctttactgaa attctgatac tggggacaga tgtcctacag gatgtcacga catcgcgctt 240

cataacatgc agcttgtata tgaccgtatg aacagattaa acaagtntat aacacaagag 300

aattg 305

<210> 4723
<211> 427
<212> DNA
<213> Glycine max

<400> 4723

tctggtggga catcttgact cgcgtttcta tctgacattc accacagaat ctagcttctt 60

ctattttcag attgggaatg cctctaacag cacctctgtc aatgattatc ttcatgcctc 120

ttaagtgcag atgtccgaat ctttgatgcc atattctgac ttcatcttct ttggaggata 180

gacatgtgga ggagtagctg gtttcttgag gtgtccatag gtagcagttg tcctttgatc 240

tgctgccctt cattagaact tcactcttct catttgtcac caagcattct gactctgtga 300

ggtttacatt gaatccttca tcacacagct gactgatgct gatcaagttt gcagtcagtc 360

ccttcaccag cagtactttg tccagactag gaagtccatc atgaactagc tttcccattt 420

catgatc 427

<210> 4724
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4724

tctggtggga catcttgact tgctttccaa tctgacattc accacagatt ctgccttctt 60

ctattntcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcatgcctc 120

ttaagtgcag atgtccaaat ctttgatgcc acattctgac ttcatcttct ttggagaata 180

gacatgtgga tgagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240

tgctgccctt cattagaact tcactcttct catttgtcac caagcattct gactttgtga 300

agtttacatt gaatccttca tcacacaact gactgatagc tgatcaagtt gcagtcagtc 360

ccttcaccag cagtactttg tccagactag gaaagtcatc atggactagc tttcccattc 420

agtga 425

<210> 4725
<211> 359
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4725

agcttgtgcc tcttcatgtc tggaatatga atacatcata tagatccaaa gacccttang 60

tgctttgctg atggcttctt ctcgttccaa gcttcaattg gagtcttgtt tttactgact 120

tagttggaca tctcgttagt atgtaaacag cagtgtagac tgcttcagcc cagaatgtgt 180

tatgtagtcc cttttccttg agcatcgatc tagccatctc cataattgtg cgattctttc 240

tctcggacan ctccatttgt tgaggagaat atgcgactgn taagtgtcgc tcaatgcctt 300

catccttaca aaatctttca cactcacgag aggtgtactc tttgtcgcga tcacttctt 359

<210> 4726
<211> 299
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4726

agcttggnta tctccttctt tactacatca agaatcaccg ggttgagtct tctctgtggg 60

tgtcttactg gtttagctcc atcctctaaa tttattcgat gcatacatgt ggatgggcta 120

ataccaggaa tgtccgccag ggtccagcct ataaccttct tatgcttctt gagaactgac 180

aacaacttct tctcttgctc atcagcaagg gaggcagata taatcactgg aaaactcttg 240

ctatcatcca agtaagcgta ttttaaattt gatggcagaa gcttcaattc tggtgtggt 299

<210> 4727
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4727

agcttctaaa ctntatacaa gaatgaagct ctgataccac ttgttataca agcggcctca 60

gatatcttaa gaaggggggg ttgaattaaa atattccaaa ctacttcccc aattaaaaat 120

ctatttcact ttttattcaa gttatgaatt ccctcaatga caatcttctt aaatattgat 180

tcaaataaaa caatttgaat atgaatataa agcaataata aataaaggag attaagggaa 240

gagaaagtgc aaactcagat ttatactggt tcggccacac ccttgtgcct acgtncagtc 300

cccaagcaac ccgcttgaga gttccactat cttgtaaatt ccttttacaa gttctaaaca 360

cacaaggaca atccttcctt tgtgtttaga attcctttac aacaagagac tcacggtctc 420

ttaatccctt agagaatg 438

<210> 4728
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4728

gcttataata tatcgatacg ctcgaaattt aacatcagaa actctctaga tattcaaatg 60

gtcataactt ttcacacgga tgtgcgattc gggcgcataa tatcgcgagg ggcttgaaat 120

tgaacaacgg aagctcttga gaaattcaaa tggtcatagc ttctcacacg gatgtccgat 180

tcgagcaaat cacatatcga gacgctcaga attgaacaac ggaaggtctt gagaaataca 240

aatgatctta acatttaact cgaatgtcca attcaggcgc atcacatata gtgacactcn 300

gaattgaaca acggaagctc tcgagaaatt caaatggtca taactnttca cactgatgtc 360

cgattcacgc ctataatata ttgatacgct cgaaattaac atcgaagctc ttgagatatc 420

aaatggcata actttcacat gatg 444

<210> 4729
<211> 389

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4729

agcttctcga catatgatgc tctcgaatcg gacatccgng tgaaaaggta tgaccattta 60

aatttcgcga gagctttcga tgtttaattt cgagcgtatc gatatattat aagcctgagt 120

cgtacatccg tgtgaaatgt tatgaccatt tgaatttctc aagagcttct cgtgttcaat 180

ttcgagcctc tcgacatatt atgcgcccga atcggacatc cgtgtgaaaa gttatggcca 240

tttgaatttc tcgagagctt ccgatgttta atttcgagcg tatcgatata ttataagcct 300

gaatcggaca tccgtgtgaa aagttatgac catttgaatt tcacgagagc attcgttgtt 360

caatttcgag cgtcactata tgtgatgcg 389

<210> 4730
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4730

cttgagccaa ctcanacgat aataactttn tactcggatg tctgattgag tcccgtaaca 60

tatcgagacg ctcgaaattg aatgttgaac ctctgagcca attcaaacga caataacttt 120

tttcacggat gtctgattga gtcccgtaac atatcgagac gctcgaaatt gaatgttgaa 180

cctctgagcc aattcaaacg acaataactn tttactcgga tgtctgattg agtcccgtaa 240

catatcgaga cgctcgaaat ngaatgttga agctctgagc caatacaaac gaccatatac 300

ttttactcgg atgtctgatt gagtccccga acatatc 337

<210> 4731
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4731

tcaacaaagg ggagatggac catttcaagt gnttgaaaga atcaatgaca atgcttacaa 60

agttgagctt cccggtgagt ataatgttag ttccaccttc aatgtctctg atttatctct 120

ttttgatgca gatggagaat ccgatttgag gacaaatcct tctcaagagg gagagaatga 180

tgaggacatg accaagagca agggcaagga tccacttgaa ggacttggag ggcctatgac 240

aagggctaga gcaaggaaag ccaaggaagc tcttcaacaa gtgctgtcca tactatttga 300

atacaagccc aagtttcaag gagaaaagtc caaggttgtg agttgtatca tggcccanat 360

ggaggaggac taaatggcac cactttgtct caattttaga gtggttagtt tttctaaata 420

at 422

<210> 4732
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4732

tcaagaaaaa gatggcctca acaaattcct tatttccaga atggaattct atcaatagac 60

ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120

aggcaataga tctaaatatc tgggaagcca tagaaatagg gccttatata cccaccacag 180

tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaaccta 240

aagatagatg gtctgaagag gatagaaaac gagtacaata caacttaaaa gccaaaaaca 300

taataacatc tgccctagga atggatgaat atntcacggt ttcaaaatgt aagagtgcta 360

acgaaatgtn gaacactctt cgattaacac atg 393

<210> 4733
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4733

agcttgcgca acanatattt aattgttgcg tgatcagtgt aaatcactat cattgatccc 60

actagataag atcgaaattt ctcaagtgca aacataattg ccaacaattc tttctcaatg 120

gtggcatagt taatctaagc atcattcaaa actttgctag cataatatat ggtatgaaac 180

attctgctct tccgctgccc caacacagca cctactgcat aatcacttgc atcacacatc 240

aattcaaact cttgtcccca gtctggtgct gtaatcatag gagcagaaac caatttggct 300

ntgagagtgt taaaggcttc taaacattct tcattaaaca caaacacaac ctccttgttc 360

aacagatngc ttangggttt aagcaatttg gagaagtctt taatgaatcg ccgataaaat 420

ccaacatg 428

<210> 4734
<211> 454
<212> DNA
<213> Glycine max

<400> 4734

acttaactct tcttacctta acgaattgag ttgtggttaa agactctcta ctgtgggtaa 60

ctactatcca gcatgccctg aacctgaatt aactatgggc gctgccaagc acacagatgg 120

taacttcatg actttacttc tacaagacca aattggtggt cttcaagttc ttcatcagaa 180

tcaatgggtc aatcttcctc cagtacatgg agctcttgtt gtaaacgtag gagaccttct 240

acaggtaaat attccaagtt attattctca atcgttagat tatgcatttt agagcttact 300

tttaagttta aatgtgtttt aggttcctaa tgaatcttag agcttacttt ctatgacaag 360

tgattgattt ttcttctaga tatctaatca agtgtgtcgt acaatctatt cattatatat 420

ggaaagtttc gtttgagtcg atgttgcact taaa 454

<210> 4735
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4735

taagaaatct atgtatggtt taaaataagc ctcccgtcag tggtacctta agtttcatgg 60

gataatttcc tcatttggtt ttgatgaaaa ccccatggat caatgcatat accacaagat 120

tagtaggagt aaaatatgtt ttcttgtttt atatgtagat gatattttac ttacagccaa 180

tgatccgggt ttgctacatg aggtgaaata atttctctct aagaattttg acttcaagaa 240

tatgggtgat acatcttatg tcattgacat taagattcat atagatagac ctcgaggtat 300

tttaggtcta tcacaggaaa cctatattaa caaaattnta gagagatttc ggatgaaaga 360

ttgttcacta agtgttgctc ccattgtgaa gggtgatagg tttaatttga accaataccc 420

acagaatgac tntgagagag aacatatgag aaacattcct tatgcttcac 470

<210> 4736
<211> 334
<212> DNA
<213> Glycine max

<400> 4736

agcttctaaa ctctgtacaa gaatgaagct ctgataccac tggttataca agtggcctca 60

gatatcttaa ggaggggggg ttgaattaag atattccaaa ctgtctcccc taataaaaaa 120

tctatttcac tttctactta ccttatgaat tcccgtagtg acaatcttct taaatattaa 180

ttcaaacaaa gcagcttgaa tatgaatatg atgcaataat gcatgaagga gattaatgga 240

atagaaactg catactcagc tatatactgg ttccgtcaca ctcttgagcc tacatccagg 300

ccccaagcaa cccgcttgag agaacactat cctg 334

<210> 4737
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4737

catgcaagct tcgtgatctt ggacaagagg gttntatgtt agcacatgca ccttattatg 60

aaaaattaga aactgagttc aagaagccat tgtatctcgg atgcgcaaac ttcacacgat 120

tatcgaaggt gttagctntg gtgaatttga aggcaagatt tgggtggagt gacaaaagct 180

tcaatgaatt acttttgtta ttgaagaata tgcttcctat ggataacacg ttacccaaga 240

atcattatga ggccaagaag aatttatgtt cagtgggtat ggaataccaa aaaatacatg 300

cttgccctaa tgattggtat ttgtatagaa atcagtttac acaaatggcg cactgcccta 360

catgtggngt gtcatgctac aaagtgaagt gatgatgcaa ccacatacaa ggatcg 416

<210> 4738
<211> 384
<212> DNA
<213> Glycine max

<400> 4738

ctaagcttct aagaacagcc ttgataccct ttattctcca tagaggcttc tccaaagaag 60

atggtatcat ccgcaaactg aagaatattc actgggacct tgttcttccc taccataaag 120

ctgtgaaata agattctgga cattgcttcc ctcatcaatc ctagtagccc ttcagcagcc 180

aagacaaata aaagaggggc caagggatcc ccttgtctca atcctctttg aggcttaaat 240

tcttcagttg gacttccatt tacaagaatg gatattgaag ctgatgagag gcaaccttta 300

acccaactaa tccatttttc gtggaacccc attcttctca tcatataaaa gatgaattga 360

caggccacag aatcataagc tttt 384

<210> 4739
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4739

taataagtcc atctatggat tgaaacaagc ctcctgctag tggtatttaa aatttcatga 60

ggttatttct tcattcagct ttgaagagaa tgtcatggat cactgtatat actagaaggt 120

cagtgggagt aagatttgtt tccttgtatt atacatagat gatattctac ttgcgactaa 180

tgataagggt atgctatatg aggtgaaaca atttctctca aagaactttg atatgaagga 240

tatgggagag gcatcttatg tcataggcat aaagatccat agagaaagat ctcgaggcat 300

tntaagcttg tctcaagaaa cctatatcaa caaagtttta gagagattta acatgaaa 358

<210> 4740
<211> 312
<212> DNA
<213> Glycine max

<400> 4740

taaacaatga tcaaacttac tctgtggaac tggctttgtg tacatatcag ctggattgtg 60

cagagtgctg atcttatgaa ctctgattct tctatctgac cgaatgaagt gatatctaac 120

atctatatgc ttggttctat catgatgaac ctgatccttg gccaagcata tagcactaag 180

gctatcacag tagatgttag catattcttg attaattctg agatcattta tcagacctct 240

tagccaaatt cctttctttg cagcttcagt gagagccata tattcagcct cagtagttga 300

gagggcaaca aa 312

<210> 4741
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4741

tgtgcatcca ataccctgat gaggatgtcc catatgttct tttaactgga ctaatccatt 60

tgcttccaga gtttcatggc cttgcaggtg aagacccaca caaacatctg aaagaattcc 120

atattgtttg ctccaccatg aaacccccag atgtccagga ggatcacata tttttgaagg 180

cctttcctca ttctttagag ggagtggcaa aggactggct atattacctt actccatggt 240

ccatcacgag ctgggatgac ctcaagagag tattcttaga aaaaaatttc cctgcttcca 300

ggaccacgac catcagaaag gatatttcag gtattagaca attcaatgga gagagcctat 360

atgaatactg ngagagattt aaaaagttat gtgtcatttg cccgcaccac caaatttcag 420

agcagcttct tctccaatat ttttatgaag gactcagtaa catggagaga agt 473

<210> 4742
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4742

ngtgcctctt cacgtctgga atatgaatgt agcatataga tctcaaagac ccttaggttc 60

tttgctgatg gcttcttccc gttccaagct tcaattggag tcttgtcttt tacagactta 120

gttggacatc tgttgagtac gtaaacagta gtgtagactg cttcagccca gaatgtgtta 180

ggtagtccct tctctttgag catcgatcta gccatttcca taattgtgcg attctttctc 240

tcggacactc cattttgttg aggagaatat gcgactgtaa gttgtcgctc aatgccttca 300

tcctcacaaa atctttcaaa ctcgcgagag gtgtactctc tgccgcgatc acttcttagt 360

acttttatcc gttttccact ttgattttca gcaagggcct tgaacttttn gaatactcca 420

aagactactg attttctttt agaaaatata cacatgtcat tctagagaag 470

<210> 4743
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4743

agcttgacca ggaattatnt ggatgggttg gatgttgaat tcatgttgtt cctggtgcgg 60

agatgatggt actgcgggtg aaccaaaagc tgcagtttct tttggtgagg tagccatgga 120

agagcagagc gtttggaatg atttcgtaaa tctcagaaag ctattgggaa atgctggaga 180

aaacacgaat gccaagcaga tataaatttg aatgaagaat gtagaggggc gtgtgaagca 240

acggtcgaat ttgctttgta gtgaacgtgc tattaatgtt aagtgattcg tttgggcacg 300

ttcagattgc agtagctgct ataattcctc tagcagacaa atgcccagct tgcccctcag 360

tttttc 366

<210> 4744
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4744

ggtcatcaat gaagcccttg tgcactggtc cgaaacctcc ttcgccgaga aaattactcg 60

aagagaaact ctgcgtgatg atcttgagct ccgagagcga aaacacatgc aggttagacc 120

ccactagaga aacggagaga tcctccgaaa gcgttgagcc agggaaactc aagtccgtta 180

tagagaccct gttggaagaa gaaccaccct ttgtagccac cactttggtt ggcttcggag 240

aaggtgacac agactcaccc tcataacaac tagagaagct cgatcccatg tgaattatct 300

ttaatctatt aagtcctatg ctgcacaagt atctatgttt ctataggaag agagatatgt 360

tngatgaacg tttataagta gatgggaaat gattggagat gatgtggttg aagattttaa 420

aggggtagca tatatataaa atct 444

<210> 4745
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4745

agcttcttag tttcagatga tgcagatgag tttgtggcta cctcatgcac tcctctaatg 60

actatagcct catttatggc gctaaactgt tgggagtcgg aagccatctt ctcaattaaa 120

ttcctggctt caacaggggt catgtcttca agggctccac cactggcagc atctatcata 180

cttctctcca tgttactgag tccttgataa aaatattgga gaagaagctg ctcagaaatc 240

tggtggtgag ggcaactggc acatagttnt ttaaatctct cccagtattc atataggctc 300

tctccactga gttgcctgat gcctaaaata tcctttctaa tggtcgtggt cctggaagca 360

cggaaaaagt ttctaanaat actctct 387

<210> 4746
<211> 369
<212> DNA
<213> Glycine max

<400> 4746

taagctcctt caactgcaca aggctcttaa tatttgaaga gtatccttgt ggaaccttca 60

cccgacgaag acactgacaa aaacttatct tctcattctt ggacaaagta tggcaagctg 120

ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgatcgt atacccatat 180

cagctagatc ttgacgggta ttcaagccat ccttcatctt gccttgaatg ttaaggagcg 240

tcccaatcac actgtcacaa acatttttct ccacatgcat aacatcaata caatgtctaa 300

cgtcaagatc ataccagtac ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360

tctaacttt 369

<210> 4747
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4747

cttgatggtg tcgagaagaa atcacatgtn tgtcatcatc attaaagggg agaatgtgaa 60

tgtatgtata catgattttg atgatgccaa agaagaatct aacaaggctg cttcaaatga 120

taagcatttg cttcaagaat aattcaagat tgcttcaaca aacaaagccc ttgtttcaag 180

attcactaaa gaccaagcct tgccttaaaa caatgtgctt tcaagacatg caaggctctg 240

gtaatcgatt accaggaagt gtaatcgatt accagaagac agggttgaga aatagctgtt 300

gaaaaaggtt ttgaatttga attttcaaca tgtaatcgat taccatatgt ctgtaatcga 360

ttaccagcaa cgaaactttg gaaattcaaa ttcaaaagtc ataacccttc aaattataat 420

tgtgtaatcg attacacaaa cattgtaatc gatt 454

<210> 4748
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4748

tcaatatctt acgtccatta tagaatatac tagtggtttc cgtatattaa aagtaaactt 60

agtaattttt ctttaaactt actaatattt taaaaccatc agagtaaaca atgaaaatga 120

taaaacttgg ggcgaaacta tatatgaacg aatgtgaaat atgaacaaca tgtttcataa 180

agcaagttaa atattatcat gctaaaagtg gcgatgtctt gtcccaacta ataattaatt 240

ttctgaaatg ttttatttac tgtaactttt gtttcaattg gcatctttnt ttattttgag 300

agagaatatt tttaaaatag tagtgaataa aaaataagtg caaataaaga taaaaacaca 360

cacaattntg catacattat taattatnta atgttcaaat aattttcatg acacttgatg 420

gatgatacaa acatatacat acattgaaac aaaaacatg 459

<210> 4749
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4749

catgcaagct tgtaacttat ataatatata cattntattg taattatatt ttaacacatc 60

agaatggtgc gcctataacc cacaggtccc aggatcgaaa cctggttctg ataaagagtg 120

gcttccgatc tatcacatat atatatattn tatgcgtaaa acatatatca ttacgcaatg 180

acatttgagt ataataaaaa atagttctgc agggcctaac atttcagtgc ttatattaat 240

ttagttacca tttaaatttt attattgagt caactttnta acgtatattc atattttctc 300

tttgttaatt ctaatttaat ttgtttaagt aaacatatct tttatggata ataatggctt 360

ccagtttctt agtgaaccac atctganaaa ttatactcga acaagaagat gtgtttcact 420

atgttcat 428

<210> 4750
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4750

catgcaagct tgttntcatt ntccttgtct acaaaggctt aaagatggtt tcattcattt 60

aaaggtaaca gtcttaagac ttgtgatgac gtggttgaaa aattcttgaa gaaatacttc 120

ccagagtcca agaatactaa aggaaaagct gccatctcat cctttcatca atttccagac 180

gagtccttga gtgaggcttt gaaaagattt catgggttac taagaaagac acctactcat 240

ggattttcag aaccaatcca actcaatatt ttcattgacg ggttaatgcc acaatcgagg 300

tagcttttag atgcttctgc aaggggaaaa ataaaattga agacccctaa agaagccatg 360

gaattaattg agaatatggc tgctagtgac catgcaatct tgcgtgatag agcacaca 418

<210> 4751
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4751

tgtttctcat atcaaggaat caactataat tcctgttctt gttcatgctg gtaatgttct 60

tccatataaa tntcatattc tgtagttagt atataggctn tatttttga atttgttcgt 120

ttcattatgc agatggaatt tgtcatgtat atgttgacaa gtctgctaat attgatatgg 180

caaagcagat tgttagggat gcaaagaccg attatcctgc agcttgcaat gcgatggtaa 240

ttagcattta cacatccttt gcaatgcact aaataaaaca tgttaatctg tatcctcctc 300

tcctnnttgg gtttactgaa ttggtaggtg tgatgttatt ggaattatgg actatgctca 360

tcaaaatatn nttgtttggt attctaggan actcttctcg tcacaaggat ctgtcaataa 420

tggtggactc atga 434

<210> 4752
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4752

agctntactt caatattntc catatcatca agtaatttgt tgaaatcagc caattgttca 60

gtggttgttc ttgactctgt catcttgaag gtgtacagtt agtgcttcaa gcatagccga 120

tntgcaaggg actttgtcat atacaatgac tccagtttca gccacattga ggctgttgtc 180

ttttctcttg caacttctct taaagcttta tctccaaggc ataaaatgat tgcacttctg 240

gatttagcaa tcatctctga tttctccttt gagcttagag aatcagacat cttttcttct 300

cctttaagag cttctgcaca gccatgttga atcaaaaatg ctncatcttg attctcataa 360

cccgagtcat tttccccttg aaactctcta tatc 394

<210> 4753
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4753

tganatngaa caacagaagc tctcgagata ttcaaatggt cataacttat cacatggaag 60

accgattcaa acgcataata tatcgggaag ctcgaaattg aacaacggaa gctctcgaga 120

aattcaaatt gtcataactt atcacacgga ggtccgattc tggcggatag tatatcgaga 180

agctcataat tgaacaacga aagctctcaa gaatttcaaa tcgtcataac ttttcaaacg 240

gaagtccgat tcaggtgcat aatatatcga gaagcttgaa tttgaacaac ggaagctctc 300

gagaaattca aatggtcata acttttcaca cggaagtccg attctggcgc ataatatatc 360

gagacgctcg aaattgaaca acagaagctc tcgagaaatt caaatggtca taacttttca 420

cacggaagtc cgattcaagc gcataatata tcgag 455

<210> 4754
<211> 158
<212> DNA
<213> Glycine max

<400> 4754

agcttctcga tacattatcc acctgaatca gacttccgtg tgataagtta tgaccattta 60

aatttcttaa gagcttccgt tgatcaattt cgagcgtctc ggtatactat gcgcccgaat 120

cggactttcg tgtgataagt tatgaccata tgaattct 158

<210> 4755
<211> 339
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4755

ccaagctntg tgccaaccag aattatggtg acaccaggat cataatgctt caactccgga 60

atccactgaa aatgaaacca cacatgcaat ttatcatcga ctttttttat aaatgaatta 120

ttttcttaac atataacatg atccatacat ccttcattac aggccataca gaaaccttat 180

aattatcaaa ataaataaga agaaatacac ccaaaacact atgaccacaa taaattgcca 240

cgaagtacct ttttagagac attttcataa ctggccttgc ttatgagaga gagagccagt 300

atgaaaacat cggcaccacg ggaactcaaa ggtcttaat 339

<210> 4756
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4756

tcttattcac ataacaccaa tagtattcca tttataagca gtgattgacg attcanatta 60

catatttata agagaccaac caaacacaaa gcaaccacag cttaaaacac ccgtaacaaa 120

tcctagaaca tttgaatttg caaaggcggg ccatgaccac tttattctaa aacttcaaac 180

acaacacata cttattattt attgatacat gtattacagc tatctctgct tgaaggttat 240

gcatgttgat ctcacttgca gctgcatggg tcgcaagtgc agtttgatcc acagttgcag 300

ccaccgttct cagctgcaac acccatttca gcaccctcga attgggcctt caccggccca 360

acacccaaaa ctagagtctc aattgtgatc ttctcaacgt agtcaaaaga gtacttgttg 420

cacttgcata catgaaaaat aacatacat 449

<210> 4757
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4757

tccttacagt cacctcgcgg catgcaagct tataaatata caccctntaa gaaagttaat 60

taatatagtt agtagcatta aattgttaac tatntgtatt atttttgtca aaattattct 120

taaaattatc ggaactcata attnttctct tttcacttaa ttactttccc acctaattaa 180

ttaatgggtg ctagtcttcc tatctaatcc ttataagata ggtaatgcat ntatcttttt 240

agtatataac atttattgta aaataattat gggtatttgg gtcaaaaaat aattaataca 300

aaagataact tgagaagact cttataagaa gggaacaaat aaaattgaaa aaagattatt 360

atatctatgg atagagtgag tatgtccgag cactaagccc cttgtgaaac taatggcatg 420

c 421

<210> 4758
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4758

gtcacgaacg atgctgggac gattgtgaat gaacttgaag ttcagcatcc tgctgccaag 60

gtgttggttn tggctgggaa ggctcaacaa gaggagattg nggatggagc taatttaact 120

atttcatttg ctggggagct cctgcagggt gccgaggaac ttatcangat gggtttgcat 180

ccgagcgaga tcatcagtgg atacactaaa gcaatcaaca aggttttttc agtttttgat 240

gaaagcctta gtgatctgtc tttaaatgtc atattgctgc tctctctccc tctaatttct 300

tgttttgttt cagactgttc aaatattgga tgaactagtt gaggatggtt ctgacaatat 360

ggatgttcgt gataaggaac aagttatttc aagaatgaaa gcagccgttg ccagcaagca 420

atctggtcaa gaagatatca tatgttcgct tgttgctgat gtgagtata 469

<210> 4759
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4759

tcttacgtca cctgccgcat gcatgcttaa atacactcaa tgaacactag catataccga 60

ataattataa attttcatac taatcttctt atatactatt tttgaaattt ccaagatatt 120

aaacatattc tttntttgtg tttatatttt caataaaata ttcgatcaga gaatttgtag 180

aagaatataa ttaagattac tcttaatcca ccttatatat gtgcgaattc atttggatca 240

ttaaaatatg ttacaacaaa aatgaaatat ttcaaggaaa tttatataaa attttgcaaa 300

gagttttatg anaatggtgc atataatttt ttctataaat atagatataa taaaccacag 360

ttctttttgt acataaaatt tgtgttgctt taatttcgtg tgtgtntgtg gtgtatatat 420

aatatcttga aatgtttcct taaaaaaata tcttgaaatg ttttt 465

<210> 4760
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4760

ngatgttcgt cttcgtgcct ttatatgtgc cactcatact cttggagggg tttacatcta 60

tagtaatcac caaggctgtg atggcagtcg cctttactat ggtaaaaaaa tacttttctc 120

ttaatagaat gctattttgt acttttcaca tttgtcccat tgcatatcat caaaattagt 180

ataagggcat tntaatttcc gcttagcttg tttatatttc atttacataa gatttttcca 240

tatttctata attttatctt gcctttgcaa cagatggctg tgctagtgct gtggtaaatg 300

gagatagtgt cgctcagggt tcacaatttt tctttaaaag atgttgacgt tgtggttgct 360

caaataaatc tagacgtggt atgtattgca tggtattcca tatatcaat 409

<210> 4761
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4761

tccatcaata actnttcact cggatgtccg atcaggcgaa ttatatatcg agacacccga 60

aattgactaa aggaagttgt cgagaaattc aaatggtcac aacttttcac tcggatttcc 120

gattcaggcg cataatatat cgacacgctc gaaattgaac aacggaagct ctcaagaaat 180

ctaaatggtg ataacttttt actcggatgt ccaattccgg catataatat ttctagacgc 240

tcgaaattga ataactgaag ctctcgggaa attcaaatgg tcataacatt tccgacagat 300

gtctgattca ggcgcataat atatcgagac gctcgaaatn taacaacgga agctcacgag 360

aaattcaatg tgtcataact ttcacacgga tgt 393

<210> 4762
<211> 420
<212> DNA
<213> Glycine max

<400> 4762

agcttgtgct tcaacaattg caacaagacc cactatccat aatgagagaa caatttttt 60

ttaaaacctt gcatctcgta tgaaatatgt tctctcttta ggtttgggtt aggtcagcgg 120

atttactccc aaggagcctt ctcaccatta gaagatcacc ttcttcatag ggtaaacctc 180

ttcaatatgc tcatcaccca tggcttcacc ttcatttcca cttgaggaag gagaagaagt 240

agcctcctct tggctactat agatgtcttg acccctcata atcatggttt tctttgtggg 300

ggtattgaga agcaatgtgg cctttcccaa tacatttaaa gcacttaatg ttactagttc 360

tatcttatga actagccttt ggagtgattt cctctatgca tttaccctta tcatcctttg 420

<210> 4763
<211> 276
<212> DNA
<213> Glycine max

<400> 4763

agcttgtatg gttaaagact cacgattgtc acgtgctcat gcaacaattg ttagcccggg 60

ctatacgaga catctttcca aacaaagtca agttaaccat aactcgcctg tgctttctct 120

tccatgctat atgtagctaa gtcattgatc ctgtgaaggt tgatgagctg gaaaatgacg 180

ccgcaattat actgtgccag gtggagatgt attgttcccc tgctttctct gacatcatga 240

ttcacttgat tgtgcatcta gacagagaaa tcaaat 276

<210> 4764
<211> 307
<212> DNA
<213> Glycine max

<400> 4764

taagctcctt caactgcaca aggctcttaa tatttgaaga gtatccttgt ggaaccttca 60

cccgatgaag acactgacaa aaacttatct tctccttctt ggacaaagta tggcaggctg 120

ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgatctt atacccatat 180

caactagatc ttgacgggta ttcaagccat gcttcgtctt gccttgaatg ttaaggagcg 240

tcccaatcac actgtcacaa acatttttct ccacatgcat aacatcaata caatgtctaa 300

cgtcaag 307

<210> 4765
<211> 306
<212> DNA
<213> Glycine max

<400> 4765

taataaatct atatatggtt taaaacaagc ttcccgtcag tggttctctt atttttcatg 60

ggataatttc ttcatttggt tttgaggaaa accccatgga tcaatgcata taccacaagg 120

tcagtgggag taaaatatat ttccttgttt tatatgtaga tgatatttta cttgcagcca 180

atgatcgggg tttgctacat gaggtgaaac aatttctctc taacaatttt gacatgaagg 240

atataggtga tgcatcttat gtcatcgaca ttaagattca tagagataga tcttgaagta 300

ttttgg 306

<210> 4766
<211> 318
<212> DNA
<213> Glycine max

<400> 4766

ttgagaaaat tcaaacgaca ataacttttt actcggatgt ctgattgagt ttcctaaata 60

tatcgagacg ctcgaaattg aataccgaag cgctaagcaa attcaaacga caaaaacttt 120

ttactcggat gtctgattga gtcccgtaat atatcgaaaa gctcgaatgt gaatgtagaa 180

gctctgagca aattcaaaca acaataactt tttactcgga tgtctgattg agtcccgtaa 240

tatatcgaga tgctcgaaat ggaataccga agctcggagc aaattcaaac aataataact 300

ttttactcgg atgtccga 318

<210> 4767
<211> 357
<212> DNA
<213> Glycine max

<400> 4767

agcttgtctt ttctcttcag tttcaaaaat catatttacg agaattatga atttgaattc 60

tgcgaaggac atttgggact acctcaaatt agagtatcaa ggtagtgatc gaaccaaagg 120

tatgaaggta cttaacttgg ctagagaatt tgagatgcag agcatgaagg agacagaaac 180

tatcaaaagt tatgctgaca aactgttgag tattgcaaac aaggtacgtc tccttggtaa 240

ggattttcct gacgaaagga tagtgcaaaa aatacttgtt attgtacctg aaaaatatga 300

atctaaaata ttagcattag aggagtcaaa agacttgtca aatatcaccc ttggaga 357

<210> 4768
<211> 356
<212> DNA
<213> Glycine max

<400> 4768

agctttagat ttctacttta ttattaatac tcatgtcatc cttgagtaat cattgatgat 60

ggagaggaag taactttccc ctcctagtaa tggaactctt gaaggcccct agtagtcaga 120

atggacgtag tcctatatgg cctttgtagt gtgcatgaac ttttggaatt ttgttcgatg 180

ctacttccca tagacacagt gctcacaaaa ttaaagaggt tccaccttat gatttctagg 240

taagcctggc ttgctaagtg tacttagcaa aatctagagt tgactaacgc cagggtggat 300

gtagcttgga agggctccat gatttcacac gtcggactag aggtgccctc ttttaa 356

<210> 4769
<211> 350
<212> DNA
<213> Glycine max

<400> 4769

agctttgctt ctacaatatt atattattac gatcgaaatt gaacaacaga agctctcgag 60

aaattcgaat ggtcatgact tttcacacga atgttcaatt cggggacata actcatgtag 120

acgctccaaa ttgaacagcg gaagcattcg agaaatttga atggtcataa cttttcacac 180

gaaagtccga ttgggggaca taactcatgt agacgctcga aattgaaaaa cgtaagctct 240

cgaaaaattc gaatggtcat aacttttcac tcggatgtcc gattcgtgga cataactcat 300

ctagacgctt gaaattgaac aatagaagct ctcgagaaat tcgaatgctc 350

<210> 4770
<211> 357
<212> DNA
<213> Glycine max

<400> 4770

agcttagtcc ataaggtttt ccatatgtgg ctaaggaact tagcatctct atctaacaca 60

atggtcctag gcaaaccatg cggtctcaca acttccctga aaaagagttt tgagatgtgg 120

gaagcatcat ccaccttgtg gcatggtcta aagtgtgcca tcttgataaa cctatccacc 180

accacaaaga tagagtctac acctctttgg gatctaggaa gcccaaggac aaagtccata 240

ctaatgtcta cccaaggtgc agaagggatg ggtaagggtg tgtatagccc atgaggcatc 300

accctagact tggcttgtaa acaagccaca cacctagtgc aatgcttatg gacatct 357

<210> 4771
<211> 317
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4771

ttaagcaaat tcaaatgaca ataacttttg actcggatgt ccgatttagt tattttataa 60

tttgagacgc tcaaaattga atgcaggagc tcttaccaaa ttcaaatgcc aataactttt 120

tactcggatg tccgattgag tcccgtaata tatctagatg ctcaaaattg aaaacagtaa 180

ctctaagcaa attcaaacga caataacttc taactcggat gttcgattga gtcatttaat 240

aattcttgac gctagaaatt gaatacagaa gctctcacca nnattaaatg acaataactc 300

tttactcaga agtctga 317

<210> 4772
<211> 358
<212> DNA
<213> Glycine max

<400> 4772

agcttgtagg ccttggatct tctttatcaa tggagtcctt tgcttcttga agatgaatgg 60

cagtggaatg gagatggaag aaagatgatt ggagacgaca cttcaaggag aagatgagtc 120

aagaagaagc tcaccatcat aggaagccat ggataagagc ctgaaggcag gagaagatga 180

gtggacagag agggagagaa ggagcacgaa attttatgcc tcaaatgagg tataaacttt 240

gaagtgtaat tcttaaatga tcaaagttga aaaaatgcac acacatggcc tctatttata 300

gcctaagtgt cacacaaaat tggagggaaa tttgaatttc tattcaaatt tcacttga 358

<210> 4773
<211> 347
<212> DNA
<213> Glycine max

<400> 4773

agctcgtaag gcttttgtct ctctattgtc acatgctcat gcaacaatta ttagccgtgg 60

ctataccaga catcttgcca aacaaagtca ggttagccat aactcgcctg tgctttttct 120

tccatgctat atgtagcaaa gtcattgatt ctgtcaagtt tgatgagcta gaaaatgagg 180

ccgcaattat actgtgccag ttggagatgt attttcccct tgctttcttt gacatcatga 240

ttcacttgat tgtgcatctg gtcagagaaa tcaaatgtta tggtcctgtt tatctacggt 300

ggatgtaccc agttgagcga tacatgaaga tcttaaaagg gtataca 347

<210> 4774
<211> 248
<212> DNA
<213> Glycine max

<400> 4774

gaatggcaaa ccaatggaga tggaagaaag acgatcgcag accacacttc aaggaaaaca 60

cgacccaaga agaaccccac catcatagga agccacggat aagagcctga aggcaggaga 120

agaagagtgg acagagaggg agagaaggac cacgaaatca tacgcctcaa atgaggcata 180

aactccgaag cgcaatcctc aaatgaccaa agtcgaaaaa acgcccacac atggcctcca 240

tccatagc 248

<210> 4775
<211> 324

<212> DNA
<213> Glycine max

<400> 4775

tgcttaagat tgtatattga tttctttaat ttgcacacca tgtgtttctg tccttttact 60

gagaacccca ttgactaatc catataaaca ttctcatcta aatatccatt aagaaagaga 120

gttttcacat ccatctgatg tagctccaag tcataatagg ctactaatgt catgataatc 180

ctgaaagaat cctttcgtga aaccagggaa aatgtctctt tataatcaat gttatctttc 240

taagtaaacc tcttaacaac aagtctagcc ttgtaacgtt cgaagttggc atgagagtca 300

catttagtct tgaagaccca ctta 324

<210> 4776
<211> 320
<212> DNA
<213> Glycine max

<400> 4776

tgtcactcca cccatatctg gccttcacat taaccacact taacactctt ttttttcaat 60

gttagtgttt agctctactg agctttaaaa gattggctaa gattttgtta aaacataagc 120

acttagacaa tgaaggaaag ctggagttgc tgcacatgat gtccaacgtt atgtcaagga 180

ataagatcgg gctgcacaat gtacaaggca agataaaatg gcaaatgaag aattgaagtt 240

gcaggatcca cgatgtcgga tacaatgtcc tgacatcctg cccgagaata ctggagttgc 300

tgtacaatgc aagataaaag 320

<210> 4777
<211> 355
<212> DNA
<213> Glycine max

<400> 4777

agcttgtagt tgctggaaat ccttctggat tattagtgga cagcactgat gggtggaaca 60

cagcttctgt tgtgggaaca ttctcagggc ctaagcatcg cttggccaca gcagcaactg 120

tgaaggacgg gaaggtgtat ctgaaccata tggttggaat tggataccca aaaaagaagc 180

atgcaattgt tgaggcagtt ttttaacgca tactttctag aaatctaaac attggggaac 240

tgggaatgtg gggatcatac atttacagga cgtttagttg aaatttggtg tacctttgct 300

tatttatgtt tggttttgtt gcattacttg gcctcagacc tcaatgcttt tccct 355

<210> 4778
<211> 348
<212> DNA
<213> Glycine max

<400> 4778

agctttccct ctttgaacaa atactcctca gccaaataga atccatcttg ggccttttc 60

ccacaactct cataaatggg agagagaaat gttcatctaa agcatacaag tccctaatat 120

tatcaaatcc taaaatttga gctcctaggg agaaaaacaa tgtgtgtctc ctagagaggg 180

catcagctac cacatttgtt tttccctttt tgtatttgat aacatatgga aattgctcta 240

ggtactctac ccattttgca tgcctcttgt ttaacttgct ttgccctcta atgtacttaa 300

gtgattgatg atcactatga atgacaaatt ccttggaaac aaggtaat 348

<210> 4779
<211> 315
<212> DNA
<213> Glycine max

<400> 4779

tgggtacact aggcacacac accctatcct gaaacctcaa tactccattt tttcccaatc 60

taaaactact ctttctccct gcgactatgg actctaactg agctgacaag aatgggtcag 120

acttctgacc ctcacggatc tcgcttaaga gttcgctggt gactctcaac atacccaact 180

taatgctact agaggtgatc tcacatgcca aactcatgtc tctaaactgc tctaagagat 240

ccaactctct aaccatcaaa gcagacattt gaagggactt tctacttaag gcatcagcta 300

ctacattggc tttac 315

<210> 4780
<211> 340
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4780

agcttanggg acgttttgat tattcttata tngcagaaaa agactatgaa acttttgcac 60

acaaatggtt cgaaaaaaga cattcctggt tgcttgaaat gtaataacgg tgttgcatac 120

gccgaaaggc attacctaat acttataatg accatcatga atgtgaaaac tcatctttgt 180

aatgtcatgg gtcagattcg atattgatgg aagctcacgg ttagatcaag cttgtaaaaa 240

atggtggcca ctcccacaat aagcaaagga atcttgtcct taactgtgag tgcattaatc 300

acttgatagt ccaagcacaa gcactataaa ctgtgcttat 340

<210> 4781
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4781

gctttgcatc agctctgata aatctgccat atactcatcc gatattaggc ctcatgagct 60

ttctcatatt tagcagctta ttggaattag cttgagtggc ttccctttta gatacttggg 120

tgttcccctt ttatcatcta gattaaatgt atgccattat actcccttgc tttccaagat 180

tactggcctg attcagtgat ggagcangaa gtctttatct tatgcaggta agctagagtt 240

gatcagagta gttattcaag ggaatgtgaa tttctggatg gggattattc ctttgcctca 300

atctgttctg gatcggatca acacttcatg tcgtaat 337

<210> 4782
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4782

agcttgcctt ttgcaattcc aagacactag tgagcttcca agtatatgac atgtaccact 60

tgtaattntc ctatctaatt tgcatcttcc agaatcagag tctgaaaaac cttttaagtt 120

tagggaactt cttttgaata ccacanacct acattggttg tgcccttaag atacttaatg 180

atcctcttaa cagtagttaa gtgagattcc tttggattgg actgatatat ngcacataat 240

caaacactta gcatgatatc cggtctactt gcagttaggt agagaagtga tccaatcata 300

cctatgtatc ttgattcatc cactgattta cctttctcat ctaagtaagg gagggtaatg 360

ttgtaacgcc tttaaatttc aataactgaa aatagatgtt tgatgtattt c 411

<210> 4783
<211> 345
<212> DNA
<213> Glycine max

<400> 4783

aatatgtatg tatgtaaata tgttgaataa aatgccttgc aaaatgttga ataaaatgcc 60

ttgcaaaata tgaatatata tagcaggaaa atgcctggca taatatgatt atatatagca 120

tgaagtgcct tacaaaatgc ttagatgggt agcgtaaaag tgtttttcaa aatatgtgta 180

tttgtgaata ggtagcataa gaagccttcc aaaaaatgtg tatatatata ggatgtagca 240

tgaaaaggtt gtcacacaat atgtcatgga tatgtgtcga aatgcttctc acaaatttta 300

tgtgtgatat gcgttgtgtc ataaatacat ggcccatatg atatt 345

<210> 4784
<211> 452
<212> DNA
<213> Glycine max

<400> 4784

acttcgatgg tgtgtttgct aaattgcaat ctttcatctg aaacctatcc aagaattctc 60

cctcatattt cttttgacaa ataaagattc cattagttgg ttgattcact tctttatctc 120

cacttttaac atagagtgtg tgctcataat gacattttgt gaacatagct taagaaaaat 180

atgcttcaat gcgactatac catgctcgtg gggctttgtt caacccgtac aagaaccttt 240

ttaatcttgt aactttatgc tcacttccaa tcttgacata acccggtggt tgttcaataa 300

atacttgctc cttcaagtat ccatgtaaga atgttgattt aacatctagt tggcaaatgg 360

gccatgatat ttatgccact aaagcaatca tcaatctgat cgtgtcatgt cttgcaactt 420

gagaaaaact tctgtatagt caatcccata tt 452

<210> 4785
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4785

actctcnctt gtagttgtct acctcaacct caatttcata tattggctag cctagtatag 60

ttgctactgt taataataac tcttgtgtgg tttccaattc tgttgtttct tcttctagta 120

ctcctagcct ttggcattct agattaggtc accctaatgg tcatgtaatg aaactagtct 180

tcaatcattg taacatttct ccatcaaata aaaatttctc aggtttttgt tcttctagtt 240

gtatgggaaa gtctcataga ttaccatctc acactcttgt ttttgtttac ttctccttgg 300

agcttatttt cacatatttg tggggacctt ctcatntgac ttcatatgct ggttataaat 360

attatgtatc ctntattgat gtnttttttcc aagtacacct ggatatttct tatcaagtct 420

aaagttgaaa ctctntgttt tcaagcttta aatctatggt gaactgcaac ta 472

<210> 4786
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4786

cttcctcact agcaattgct agtactatca tctcagattc catagtggac taagctaaga 60

tagtctgttt cttcgacttc caagaaacag ccccaccagc tatgctaaat atatagccac 120

tggttgcttt ggaatcatct gaaagagtgt tccaatctgc atcactgtat ccttcaagta 180

cagcgggaaa ccttttataa tgtaatccaa ggtttatgat tcttttaagg tacctcatta 240

ccatttcaat agcgtgtcag tgctccatac taggtctgct ggtaaaccta cataataatc 300

ctacaacata ggctatgtcg ggtctagtac aatcagtggc atacctaagg gtgccaatga 360

tactngcgta ctcagttggt tgtatacctt caccagtgtt cttaaacaag tttacacttg 420

gattatatgg tgtactagca ggtntacagt caaagtagtc atat 464

<210> 4787
<211> 311
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4787

agctctccaa aaattcaaat ggtcataact tttcacacgg aggtccgatt caggcacatg 60

atatatcgag acgttcgtaa tngaacaatg gaagccctcg agaaattcaa atggtcataa 120

ctttttactc ggatgtccga ttcaggcaca tcacatatcg agacgctcgg aattgaacaa 180

cggaagctat gaagaaatca aatggtcata aactttactc gaatgtctga ttcacgtgca 240

tcacatatcg cgacgctcga aattgaacaa cggaagcaat tgataaattc acatggtcat 300

actttttgt c 311

<210> 4788
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4788

tatctacccc atntctgaca gtgctngngt aagcccagtc caggtggtac caaagaaagg 60

gggcatgaca gtcattcgga ataaaaagaa tgacctaatt ccaacaagga ttgtcactgg 120

ttggagaata tgcatcgact accacaagct caacgaagcc acaaggaaag accattttcc 180

tttgccattc atggaccana tgttggagag gcttgcggga caagcttatt actgcttctt 240

ggatggatac tctagataca atcaaattgc gataaacccc aaggatcagg agaagacggc 300

cttcacatgc ccttttggcg tctntgctta cagacgaatg tcanttgggt tatgtaat 358

<210> 4789
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4789

gcttgagatc ctgacaggat ccanacacaa acaaacatat ggagtgagtt atcatattcg 60

taaacaggta gagataaatg aagacacata tataatataa gtataacaag ctcaacttag 120

cacaattcac atcattttac cactcatgta acatcacttg tcccaagaat ctaataaaaa 180

aatcacattt cacactttca cataatcacg tgttcagaac aacacattca agtacaatac 240

aacatctcat gctcacacaa ttcattactc accatcacgt aacaaatcac aatgatcatt 300

acatagacat tatgcaacaa atacactaag actcaattnt atatgcaatg tggtattagg 360

tgagtgaaaa atctcatcag gcgcctagga atacatgaca agacaagtca tacatcggta 420

agtcaagtca ctctcactag gtaaaatcat agagagagca atca 464

<210> 4790
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4790

cctcatgaat cttgaagtgt tcttcatctn ttcttcttga gtcttgaatt gttcttgatt 60

ccatcttgaa cattatgaac tcattctttc attgaccttt gtgccttttg tcattacctt 120

tgtcatcatc ttttgttata atcattgtta tcatcaaaac atctttgaat cattcttgat 180

tcaccatgaa gctttgcttc tacacgttag tccctcaagt catagaaata agataacata 240

caaatgctaa atgatgaaac atgaaaagaa tacgaatctg gggatcccac ggtcatgtgg 300

ctccgcatgc caccggactc ttgggtcacg gtaacaaaaa gtgaggtggt cgacaaaagc 360

atggctnttg ctcctacgta tcctcaatnt gtgatgagga actcagacct acgtagttct 420

tgataactgt gagaactaaa atagtctcgg tgttttcttc actaaaat 468

<210> 4791
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4791

cacttccagn gccctacatt acgagtatat gtgtctaggg taatcatgct tcatatngaa 60

tttttgatta cagcttcctc ttttctaatg gtcaatatca tgggtaagtt ggctattgta 120

tccacttaga agttattatt ttgaaaaaaa aaaaaaagct atttgctgtt ttaagcataa 180

taattctggc aaaaaaatgg aaaaactaag gccagaatta gacattacag atggtatggg 240

gaagtatgag ttcaagttcc tatattgctt caagaagcta gttattacaa tcaatggcan 300

aactctagga cccagcatcc agccatagga aggtgatacc attattgttc aagttaataa 360

tagtttactc acagaanacc ttttgatcca ttagcactgg atcagacaag 410

<210> 4792
<211> 478
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 4792

gtgctcacct ttagtagagg agaattcttc aagttgtttc atgtaaacct ctttctctag 60

atgaccatta aggaatgtcg ttttcacatc catttgatgt aactcanagt caaaatgagc 120

tactaatgcc ataattactc aaaaggaatc tttcttagat acaggagaaa aaatctttgt 180

gtaatcgatt ccttctcttt gagtgaaccc tttggcaaca agtcttgcct aatgtctctc 240

aatgtttcct tgtgagtctt tattggtttt aaaaacccat ctacatccga tggctnttac 300

accactaggc aactgtataa gatcccagac ttggttaaat gtcatagaat ccatctcatc 360

tttcatggca ttgtaccaca agtttgattc tttagaactc atggcttctg aaaacatttc 420

aggatcattt gcagctccaa tgttgtagtc cgattcttgc agatacacta cataatca 478

<210> 4793
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4793

agcttctata catcattctt ctaaataggt ctagcttttt ntgcatttct ttggcccagt 60

attcattaga tatagcgtca tccatgtgct ctggctcgat cttggaaagt agtgttgtgt 120

gcttgagaga attccttgtc tggactntgc ccttaggatc accaatgatc taggactctn 180

gatgatattt tctcagcaag tgtctagttg gttctctaac ttctttaggt tgatcatcca 240

ttggtgagtt ggacacaagt tggttctgac tggatgcaac aatagacttg acgatatctt 300

caattttcat ctctgcaaag gactcatcca gttttgacat ggtagtgtta ggctcgttgt 360

cattaaacct cacatgaatg gcttcttcca nagtcaaggc tctggagttg tacactctat 420

atgcctacac tattatcant aaatttttat tccct 455

<210> 4794
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4794

tatgatcatg gatctatcaa tntaagttaa aggagtaaat cacttctagg aatgatntaa 60

taaaagataa ctaatctatt agagattacc caaatagttt gatcatgcaa ttcagtgcaa 120

aaaattctct acctagatct accaattaca tgcaggtgat aactattatg caatcgattg 180

agtattagaa tgacctatgc caaataaaca ttaaaataag gaagaaaatt aattaacata 240

aaacaatgag aaattccatt aagaacaagg aaaggagtac atttggacaa ttacatcata 300

accctcgaac taaggggact atctactcaa aatcaaagca naattagcaa ttctataaaa 360

taaaataaaa agtaaagata ga 382

<210> 4795
<211> 496
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4795

tgatagtgag actcaacttg gatactcttc ttgtgcttta tcaattgcaa caagacccac 60

tatccataat gagagaacaa ttnttttta aaaccttgca tctcgtatga aatatgttct 120

ctctttaggt ttgggttagg tcagcggatt tactcccaag gagccttctc accattagaa 180

gatcaccttc ttcatagggt aaacctcttc aatatgctca tcacccatgg cttcaccttc 240

atttccactt gaggaaggag aagaagtagc ctcctcttgg ctactataga tgtcttgacc 300

cctcataatc atggttttct ttgtgggggt attgagaagc aatgtggcct ttcccaatac 360

atttaaagca cttaatgtta ctagttctat cttatngaac tagccttgga gtgatttcct 420

ctatgcatnt acccttatca tccttnggct tagaaggtgg tactccttgt ctcttacttc 480

catanttaaa ctactt 496

<210> 4796
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4796

agaagaagaa gaaattcana gagattcatg gcttgtaaaa gattgattga atgaattgga 60

aatgtatatt gaaaagcana tcanagcctt gcttttatag actcttcatg tctggtcaag 120

aaaaccattt agaagagtta caacttttag aanaacttan aaccaatttg aaaaagtcaa 180

aaaacctttt gaagagttac atcttttgat ttattcagaa acagtcactg gtaatcgatt 240

accaaatcag tgtaatcgat tacacaaggc ttttaagtga aaggatgtga ctcttcacan 300

tttgaattga atttcaacgt tcaaaggcac tggtaatcga ttaccaaaac attgtaatcg 360

attacagctt tttgaaaata atttgaaacg tttaaattca attttgaaaa ctttnntcaa 420

aacaattttc tactggtaat cgattacagc aatctggtaa tcgatta 467

<210> 4797
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4797

atgtatatct atattccctt attttacttt atttcggagn aaaatatcaa gttttatata 60

cttgacataa catattgccc gaattctatt caattatcaa tgatccatta tattaatgaa 120

agtcaaaata gattcctttg gttctttaat aaaagccata tattctaagg cagatagttc 180

cgttatttag gtcttggctc agtcagtggt ctgggatgcc atggtgcctt caaaaaagag 240

gacacatgta ggtcgtccaa agcctttgta tgttgagaag ctcatgagag acctatgcac 300

tattcttcac gaacaacagt cttatttttc tgcatcttct gaagaggatc ttctttt 357

<210> 4798
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4798

cggtcctgtg gaacaatgac tgccaagagg tcttctagaa gatcaaccag agtctcgcga 60

atcccncggt gctcatgcca cctgtaacag gaagacctct tttcctgtac atgaccgtgt 120

tggacgagtc tatggagtgc gtgttgggtc agcatgatga ttctgggaaa aaggagcaag 180

ccatctacta tctgagcaag aagtttaccg catgtgagat gaattactca atgctggaaa 240

ggacgtgtta tgctctggta tgggcatcac atcggcttag gcagtacatg ctcagccaca 300

ccacatggct tatttcaaaa tggatcccgt gaaatacatc tttgaaaaac cggccctcac 360

gggacgaatc gctatgtggc aggtactatt atctgaattc gatatcgttt acgtca 416

<210> 4799
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4799

gcttaacact ttgttgatgg gtgcaccatn tattatgctg ggtgcgtgta acaaagcccc 60

attatggaat ggacatccat caactaccat agaatggact taacttagtt tattgggacc 120

gataataata gtcgtttaca acacttgtca taaacttgta aaaacaaatg taataaattt 180

tgtagggaga taattacatt attttaaaaa ttaatatata agtatatttt ccttcaatta 240

tacattgtcg tatatgataa aattgttgat tntaataata attattttaa aatcatattg 300

atgatatctt ttattaatca ataatgttaa taaaaatata tatttactta acttacattt 360

aaaagatttt ttaaatgacc tatagttnta ccttttaacc aaataacgtt ttctttataa 420

aattctatgc ataaggttaa ctctttttat ataaaaa 457

<210> 4800
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4800

agcttcacaa ttatatnnta tctttgtcaa gtaagtgaca gcttgatatt gatttttag 60

gccacattgg tgcaagttgc tgctacagta cctcttaact gttcaagtca acaagatggc 120

ttaagggtgt ggttggataa acaatttaat taattgctta ttggataaat acttatcatg 180

caagcgctta tgtataagct atttctgtaa tctaagagga ataggatta aactctttta 240

atacaagttg taagttattt tcacaagtta tcatggagat tggagagctt attgaaataa 300

gctgaaaaca aattatggag agatcataag ctatgtccat atngctctcc aaacacttat 360

acaagttctt atgtcataag ataagaccaa acaaactgta aataagttgt tc 412

<210> 4801
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4801

gatgattatg agaaatggtg tgtaaaatat gaacatgtgt ataatttata ggttacaaaa 60

ctatttattt atttttttnta aaaaatagta acaacaatgt ttttaacatt gagtggtcca 120

acattcatag ttnttttcct ccaatgttca ttttaatttt ttatttttta atttttctct 180

cctgggctat tccactttcc ctctaccttt cctctatgtc tcttcttttt tccatctctc 240

tccccgaccg ttccacttac ccttcctctt tatttctctt cctctatcgc tgacccttte 300

acttcccttc ttctcttcct ctctttttat tcttactctc ccacataccc tcttcctatc 360

tccctttttct ctttttcctc tcccaccaca cgactattcc tctccctttc ctctttttct 420

c 421

<210> 4802
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4802

gctccagtct tgatctgacc ctgttaaata atgacatagc aatatcttat atcagcttca 60

gcttaaggta aaaaaaaatc atttttcana atttaaacaa aatttgtccc agaatgcacc 120

actggaacaa tgaataagaa catgatatga ttgaaaaana aaagcttctg attctggcaa 180

cttacagttg ctaatccaac tgagaggtca gcaatgaagg tatcctcagt ttcaccacta 240

caataaacaa gatgaaacac attagtgtgc acaaagaata atacaatgtc acaaaacaga 300

acaaatacct cctgtggcta gccatgacac cccaaccagc ttgtttagac attctcacag 360

cttcaatact ttcagttaca ctaccaattt gattcaccta acaatgatga aataataata 420

a 421

<210> 4803
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4803

tcgcgatntt atctctctca gactngagtg ttggaagacc aattacttag tcttctctat 60

ccagatgatg taaatgatgc atgttaatgt gtactgccct acaatgccac aaccatgaat 120

catctatttt acttacgaaa caactcagct catgaaatga tgcatgttca acatttagca 180

tatagatatt acctattccc ttactaatgc ggacaacttt accgaatatg gtttcactta 240

taagacaaca atttctgttg aactctatnt tgaagccttt atcacaaagt tgactaacac 300

attctntatc agagttttct attgagtccc tatatttcct tctcccatta ttgttccttt 360

gttattgtct ccaaatgtga catatcctgc attnnttgac acaaaatcaa atagtttgga 420

c 421

<210> 4804
<211> 485
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4804

catgcaagct tattgaatat ccacgaataa cacactgaat atgtgaagag atcgcacact 60

ctattcatta tatgataatg aaatttataa gccttacata cttgactctc agaacagaat 120

aacaataaaa acaaaaacca caaaactgca tgacgcataa aataggattg tttattgaca 180

cattaaaata actaacatta atttgtattt taattctctt ttaatcacta tagtttgaaa 240

ttgatctttn tagttcctat aatttgtatt ttaattacct tttagtcctt actgcaataa 300

atatataaaa taattagcta caaattagtt ataaattatc aactattttt ttattacaaa 360

ttatcttgtg ataaattagt tatgaattac ttgctaatat tgttgtagct aattataatt 420

gataatatta actcatattt gatggtaaga actaaaatga aatcaaaata taaagtatat 480

ggact 485

<210> 4805
<211> 485
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4805

gcttcttagt ctcagatgat gccagctgag ttgtagctac ctcatgcact cctctttgat 60

tatggcatca tttctggcac taaactgctg atagttggaa gccatcttct caattaaatt 120

tctggcttca gcaggagtca tgtctccaag ggctccacca ctggcagcat ctatcatact 180

tctctccata ttactgagtc cttcataaaa atattggaga agctgctccg aaatctgatg 240

gtgagggcaa ctggcacata gtttttttaaa tcgctcccag tactcataca gactctctcc 300

acntgagttt ctaatacttg agataccttt cctgatggct gtggtcctgg aagcagggaa 360

naaattntct aagaatactc tcttaaggtc atcccagctc gtgatggacc ttggagcaag 420

gtaatacagc cagtcctttg ccactccctc cagagaatga agaaaagcct tcagaaatat 480

gtgat 485

<210> 4806
<211> 382
<212> DNA
<213> Glycine max

<400> 4806

ctgtgtctca tcgaggagac cgtaacggaa catccttcgg agctgtgcct ctccctcgaa 60

gatccggcgc gggttcttct cgtcgagggt gaggaggttc cgcgcgttgt tgcggatgcg 120

gctgagcgcg tactgcaccc tccacagctc tctcttgcac cgaagcccgt actcaccaac 180

cagcttcaac tccgcgtcga gacgctcctt ctcgtacgga cgacgcggct tcttgaatgt 240

cttcccatct gacaaacaga acaaaatata acagatcaat ggcgttgcta gggttacggt 300

tttcaaaacg gcgtcgtgag aaactagaac gtggatcggt tcgtggactt acagttcctg 360

tagaaggaga cgtgcaccat gg 382

<210> 4807
<211> 347
<212> DNA
<213> Glycine max

<400> 4807

cctctctagc aacacgtaca atctcggttg gaggaatcat cccagcctta gatggtcgaa 60

tccttcacaa tagcagtaac aacaacaaca acaacagcag caacatctac agccccagat 120

acagcaaaca gttgaggctc cttcgcaacc ttcccttgaa gaacttgtga ggcatatgac 180

tatgcaaaac atgtattttc agcatgagac cagagccttc attcagagct caactaatca 240

gatgggacaa ttgtctacac agttaaatca acaacagtcc cagaattctg acagattaca 300

ttctctatct gtccagaatc ccaaaaatgt gagttccatt acattga 347

<210> 4808
<211> 253
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4808

cggaaaccca aacagtaccg gatcggctgt cgtcaactcc gccattgata tctctggtat 60

ggcgacatac ttgggcgacg ccctcatctg atatatcacc tcaatcggca atgtctccaa 120

aaccctatac agaaccccct ccacaccttc cactctgtcc atgacgatct tcaacctatt 180

caccatcccc ccatgccgac tgagagagac gaccactacg acgacgctgc tntacgtgct 240

ggcactggcg tgt 253

<210> 4809
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4809

gaacagttcc cattttccta ctccatactn tttgtttgtc aaagcagctg tgtggctctt 60

agacttgtca aattcagtag caagttcttc aacaaggctt cttccaacat gaaatgatct 120

atgtgcctct gagaactctt tggatgtgac aaatctataa ggctgatctt tgtctgccca 180

gtactgctcc tgatccttcc ttgatgttac ctataacata ataattaatg gtcaaaatta 240

aatgtatata acattctttt accagtgcag acagattaaa ttattgggac agaacacaag 300

accacttact tcttgcaaaa agtctgccac acctttcctc tcangacatt taaaacccat 360

tgattnaaaa attccacaca tgtcgcgggg accct 395

<210> 4810
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4810

agcttgaacg atgangacta tatggagaag gaatggcttc ttgagtgatg tatacagaca 60

ggtctttcga gcctgagcca tgacgaagaa aagaagaagg gttttggtaa ctgatcgcgt 120

gggggaaaaa tggatnttgg gggtttaagt tatgaataaa acaacatcgg tttcttaaaa 180

aaaatcgatg ttaagatatt aatgttaaca tcacgttttg gaaaaaccaa tgttaacatc 240

aacttgttaa catcggtttt tttaanatcg atgttaatta agtcaactta tttaccaaaa 300

tgtcaccgcg cttttattta catcgatttt tgcgaaaact aatgctaagc ttacgaggtt 360

aaatcaataa attgtagtag tgaccttctc tcactcacgc caatatatgc aatctccccc 420

ttctacanat catgacaact nnntgtgtca tccttttata agtcttta 468

<210> 4811
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4811

ctaaagntac tatcatgcca agaagatact gtgtctgatg ggtatggagt atcanaagat 60

tcatgcttgc ccaaatgatt gcatactgta ccaacatgaa ttcaagaaat ggccatattc 120

ccaaggtgtg nggtatcaca gtacaaagtg aacgatgatg acgactgtag tagtgacgaa 180

aactcanaga aaggcccccc agcgaaggtg atatggtatc ttcccgtcat tccaaggtta 240

agcgtctggt tgctaatgga gacgacgcaa aagaccttaa tccggctgat tcctcacaat 300

ggaagaacat tgatcgttng tatctggatt tcaacaaaga ggcaagaaat ct 352

<210> 4812
<211> 372
<212> DNA
<213> Glycine max

<400> 4812

agcttgcttc tacacctttt tcaatgcagc agcaacttct acaacaacaa agacaacaag 60

caactggggc ctctcctcca ccttccttag aagagttagt gaggcaaatg accatccaca 120

atatgcaatt tcagcaagag ataagagcct ccattcaaag tctaacaaat cagatggggc 180

agatggctac tcagttgaac caagctcagt cccaaaattt tgacaaattg ccttcacaaa 240

ctgtgcagaa tccgaaaaat gtgagtgcca tcaccttgag gtctggcaag caagttgaag 300

tgcctccacc agtagcaaca cctgcacctg aacctgtcaa gcttcattct gcacttgaaa 360

aagaggatga ga 372

<210> 4813
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4813

agcttcacga tatactacgg gacacaatcg gacatcctat taaaaagnta ttgtcattnt 60

aattntctta gagcttccgt tttaattacg agcggctcga tatattacgg gactgaatca 120

gacatccgag ggaaaacgtt ttgtcattag aatttgctca gaagctttgt tttcaatatc 180

aagcgtctcg ttatattacg ggacttaatt gtacatctga gttaaaattt aatggggttt 240

gaatttgcta cgaccttctc tttccaatta cgagcgcctc gatatactac gggacacaat 300

cggacatccg agatataagt tatttttttt tgcatttgct cagagactta tgtttcaatt 360

tcgagcatct cgatatatta cgggactcaa tcagacatcc gagatataag ttattggcct 420

ttgaatttgc tttcgagcgt ctcgatata 449

<210> 4814
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4814

caacgaaatc aaaacatttg ttgtggcatt gtgcctgctg caatttatgg aagatgagaa 60

atgaggctta tgatgggcaa aaattacttc aacattctaa gattatatgg cttgngctta 120

tgatggatgg cctgtgcagg aaccatatgt tgtcggatgc aagaggattg atggatctga 180

tgatgaggaa tggggtttac ccagatacaa ttgcttatag tactctcttg catggatact 240

gcagcagagg gaaggttttt gaagctaaaa gtgttcttca tgaaatgata aggaatggtt 300

gtcaacctaa tacttacacc tgcaacacat tgctccagga aatggttgta gtaagagtct 360

tcanacttat aatgcattga tccagatatt tgcagttata acaatattat cac 413

<210> 4815
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4815

agcttctata gaaggttctt tcctaatttc tctattattg aatcacctct caataagcta 60

gtgaagaaga atgtggcatc tacctgnggt gaaaaacaag agcaagcctt tgctttgctc 120

anagaaaagc ttactaaggc acctgttcta gctcttcttg actnttctaa aacttttgag 180

ctagaatgtg antgccttgg agtgggagtt ggagctgtat tgttacaagg tgggcaccct 240

attgcttatt ntagtgaana acttcatagt gccaccctca actaccccac ctatgataaa 300

gagctntatg ccttaataag agccctccaa acttaggaac attaccttgt ttccaaggaa 360

tttgtcattc atagtgatca tcaatcactt aagtaca 397

<210> 4816
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4816

agcttcttca agttccaagg catagtcttc atgttgctct ccctatctct aacaatctct 60

ccctttttgg ctntgatgat gccaaacttg aatntccatt tgagtgcatn tggagagtct 120

tgagagtaga gacttttctt gggaaaacct aaagtttctt aacactaaga gaaatgtgtc 180

aattcatatc atcatcatca tcatcattag ttggagttat atatgaatgt atgtatgcag 240

tgcactaatc atatgcatct canatccatg tttcatctgc ttgacttgaa gtccaaggaa 300

gaagttcaac tctcccatca tagacatctc anattctttc tgcatagaac tgganaattc 360

cttacacana gtttcattag tagcaccaaa aattatatca tcaacataga 410

<210> 4817
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4817

tagttatgaa cagaatccag aagcatcctt ggacttcgca tnttanctat gttggagaat 60

agttntgatg tttggtgcag ttcctgctgc actcacctac tactggcgca tgaagatgcc 120

agagacagca cgttacactg cccttgtggc caagaatgcg aaacaagctg ctgcagacat 180

gtctaacgtg ttgcaagtgg aacttgaagc tgaagaggag aatgtgacaa aattgacaga 240

gaatgagagc cacaagtatg cgttggtcac caacgaatta gtgaaacgcc atggnctgca 300

tattgtggga accaccacca cgtgcgtctt ggtggacata gcattctac 349

<210> 4818
<211> 495
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4818

tattattgag tggacgctac tatctcttat tcctgtctta atgagccaat ggctacggag 60

ctatcgtcca attgtaaatc tgcaaaagac tcatctagct ctaataattc tttatcaggc 120

ttatttttgt caaatcttat atggatagct tcttcaacaa ctaaggttat tgagttgtac 180

actctaaatg cctttgaagt ttcaaagtat caaagaaata ttccatagtc acttttcgag 240

tcaaaatttt cccagactat catttgtgtt aagaatgaaa cacttgcacc caaaaggatg 300

aaaatatgat atgttgggtt ttcttccctt ccacaattca taaggagtct ttntcaagat 360

gggtcttata taaattatgt tntgaagata gcatataagt tcttaggggt taagttatca 420

gttggcatgg ttctagccat ctcttggaga gaattgttct ttctttcaac tactccattt 480

tgtagcggag ttctt 495

<210> 4819
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4819

agctngaagg tgcgtaccca ccatttttat aatagagcac tggtaatgtg tctactatca 60

ttgttatcat ttctttctcc atcattgagg gtgctaccta ggctgccagg tctctccacc 120

tttgggtgta tactttgaaa gatttcatgc cccttnttgc acatgttatg tagttgcatc 180

ctatccggag ccatatcaga attgtactga cactgcctaa cgaacgcaac cattagtgat 240

gcaagttcca ttggagcttg taggcctagg atcttcttca tcaatggatt cctttgcttc 300

ttggaagatg aatggcagtg gaatggagaa aggaagagag agaggagacg ccacttcaag 360

gagaagatga gtctagaaga agctcaccac cat 393

<210> 4820
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4820

acaatatatc ttgtcctgtn ttcaccaaca tacactgcan nagtgccctt tggcacatct 60

tctggaagac caccctcttc attgtagccc tgctgcttct tcccaaaact tgaacacctt 120

ctcacaattt gcttgatcac atctgcttgg ggtagcttat tggattnttt gatggccatt 180

gtgatatgtg attgtgttac ttagtactct ttgcacacct tcaaaagggt ctcttgaggg 240

tgctgaaagt gtgtgattca tggggcgagt ttggataggc atttatcatt gngacattgg 300

tgtaagtgga aatgagaaat tgagttttag agaaacaggg tcacgtggct gtggggacac 360

atgtagcaga ccacacccan natngtcgta catg 394

<210> 4821
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4821

agctntataa gctcaattga agccatatct ctagatgtgt gactaaacca ccacccttaa 60

ggctgcaatt aaggcaacca caaagaggct gcaactaagg cgggataggg gtgaccatgg 120

ttatcaaaca ctcgagttaa ctcattaact cttacaagtt tacaaattca cttaccctct 180

atgagttgac tntgtataaa ctctcttttt agtagaccct aggtagactt tataaactct 240

aagtaaactc ggtagactct ggagtttacc accaagtcaa caagtcatca agttaaaaaa 300

attagaccaa aatgtaagtc attntgggtt attntttgtc tgtttagtgt tcaacatacc 360

ttcatttagt ttgttattcc caaataanaa aattctcatc tttaataaca tcaaaccctt 420

gatgggaatg atctacgact actataacat ctgcaagtta ttatctagta gtca 474

<210> 4822
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4822

gctatgctgc aacattataa tagacccnct cagcttcaaa accaacaaca ccagaataat 60

tatgatcttt caagcaacag atacaatcca ggttggagaa atcatccaaa tctgacatgg 120

gcaagtcctc cacaacaaca acagcctatc cctcctttcc agaatgttgc tggtccaagc 180

aagccatatg ttccttctcc aatacagcag cagcagtcac aacaaagaca acaagcagct 240

gaggcccctt ctcaaccttc cttagaggag ttagtaaggc aaatgaccat ccagaatatg 300

caatttcagc aagagacaag agcctccatt cagagtgtga caaatcanat ggggcagatg 360

gctactcagt tgaaccaagc tcagtaccaa aattctgaca aaattccttc atagactatg 420

cagaatccga aaatgtgagt gcatca 446

<210> 4823
<211> 208
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4823

gctgatatga tcacacaagc tctcgagaaa tncaaatggt cataacttgt tacactgtta 60

gtctattcan gcgcataata tatcgagacg ctcgaaattg aaccatggta gctctcgaga 120

aattcaaatg gtcataacct atcacacgaa agtccgattc tggcagatag tataccgaga 180

cgctcgtaat cgtacaacta aagctctc 208

<210> 4824
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4824

gctacatctc ctaaggatct ccttagataa tgcttaactc anaaaggcct atccttggac 60

aacataattg gagaaatatc aaagggagtt tctactcgcc ctagactcga gctaaatcag 120

tttaaaagga atgaagtgtg agacttagtt cctaaacctg cctctcacat gtcaatcgga 180

accaaatgga tgtttcaaaa caaacttgat gaatcaggca tcatagtaag aaacaaagcc 240

agattggttg cataagggta caaccaagag gaaggcattg actatgatga aacctatgcc 300

ctgttacaag gttagaagcc attatgctgc tggttgcttt tgcatatatn tatggattta 360

gattattcca tatgtatgtg aagagtgtct ctctcaatgg atacattgaa gaagaggtat 420

atgtagacta gcctncaggt ttcgtgcact atgaacatnc taatcatgtt ta 472

<210> 4825
<211> 306
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4825

tcggacctca gtgtgaatag ttatgagcat ctcaacctcg cgagagcttt cgttgatgac 60

tgtcgagcat ctcgacatgt tatgcgctcg aatcggacat ccgtgtgana agttatgacc 120

atntgagtct ctcgagagct tacgtggttc aatttcgagc atctcgacat attatgcgcc 180

cgaatctgac cttcgtgtga taagttatga ccattagaat ttctcgagag ctttcgatgt 240

ttaatttcaa gcgtctctat gtgttgtaag cctgaatcgg atcgtaccgt gaatagatat 300

gaccat 306

<210> 4826
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4826

agtcacctgc ngcatgcaag cttactaagg cacctgttct agctcttcct aacttttcta 60

anactnttga gctagaatgt gatgcctctg gagtgggagt tggagctgtt ttgttgcaag 120

gtgggcaccc tattgcttat tttagtgaan aacttcatgg tgcgaccctt aactacccca 180

cctatgataa agagctttat gccttaataa gagcactccg aacttgggaa cattaccttg 240

tttcccagga aattgtcatt catagtgatc aacaatcact taagtcatta gagggcaaag 300

caagttaaac aaaaggcatg caaaatgggt agagtaccta gagcaatntc catatgttat 360

caaatacaaa aagggaaaaa aaaatgtggt agctgatgcc ctctctatga gacacaca 418

<210> 4827
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4827

ttcttcgtgg gttgatgggt tctatctcgt agaatggctt gatcactggc taacatgttc 60

tcaattagct cagttgcttc tttcggngtc ttcagttnta tcttaccccc tacagaagca 120

actaacaatt gcttggtttg tggtctcagc ccatctataa acatattcaa ttggattagc 180

tcggaaaacc catgagtggg agttcttctc aacaagcctc tgaacctctc caatgcttca 240

ctcagagatt catcangaaa ttgattaaat gaagagattg cagctttccc ttccgcaatc 300

ttggactctg ggaagtattt ttttaggaac tnttcaacaa cttcttccca ggttttcaac 360

ctattacctn tgaatgagta gagccacctc t 391

<210> 4828
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4828

agctggctta tacaatctct ctccttttga tgatgacata cctganatca agaaacacat 60

acacattctt tttcctagcc aatcactcac ttaattctcc atattctccc cctttgtttg 120

tgagtttaag ctctacttga aattaagtta ttcaatcttg tgagttcttg atttaatccc 180

tattttctct ccccctttgg catcaacaaa aagccaaagt gcgtaacaaa tataaaacat 240

acataaatga ctaatcatac acaagacatt cattgaanaa tctaaaccaa tcatgaagca 300

aaaacatgaa taacccaaat taatatataa accacatagt catataacat aattcataaa 360

aattcagtca tactaaacaa atattaaaag aaatactaga tgttcaaatg tcataataat 420

atagccaaat acatggctag aaatcanagt actaataata ctaaagaatt ata 473

<210> 4829
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4829

taataaatct atatatggtt tataacaagc ttctcgtcag tgtttcctta tgtttcatgg 60

gataatttct tcatttggtt ttgatgaaaa ccccatggat caatgcatat accacaaggt 120

tagtgggagt aaaatatgct ntcttgtttt atatgtagat gatattntac ttgcagccaa 180

tgatcggngt ttgctacatg aggtgaaaca atttctctct aagaatcttg acatgaagga 240

tatgggtgat gcatcttatg tcatcggcat taagattcat agagatagat ctcgaggtat 300

tntgggtcta tcacaggaca cctatattaa caaaattcta gagagatttc ggatgataga 360

atgttcacca agtgttgctc ccattgtgaa gggtgatagg tttaatttga accaatgtcc 420

aaagaatgac tttgagaggg aacaaattga gaacattcct tatgct 466

<210> 4830
<211> 502
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4830

gcttatggat aagctctnta tttagtctca tttanaagaa gttatttaca gcttgttttg 60

acttatttta tgccataagc atttgtgcaa gtgtttgaga aaactcttga aaataacttg 120

tgaaatgtcc ataagctgtt tttaagctta tttctataag ctcttcagga tagctaatga 180

aaacagctta caacttatat gaaaacagtt taacccgaat ttctcttcga ttatcgaaac 240

aacatataca aaattgttac atgataagta cttacctaat atgcctttaa ttaagttgtt 300

tttccaatca ggcctaagag attattgaat aaacacttaa ttaagttgtt tacactaaga 360

tgctgttcat gtgtgcaggg gaaatantca ccaatttgcc aaagagctgt cgatacattc 420

caacctgcag tgagtattcc atggaggcat ataagcgata tggatgcggt gaagggtaca 480

gtttaactgc gtggcgtata tg 502

<210> 4831
<211> 496

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4831

agcttgtaaa ctntatacaa gaatgaagct ctgataccac ttgttagaca ctcagatatc 60

ttaagaaggg gggttgaatt aagatattgc aaactatttc cccaattaaa attctacttc 120

aatttcaatg caagttacaa gttcccttaa aaatgaactc ttaaataatg attcaaatag 180

aacaatctga atataaatat aaagcaataa taaataaacg agtttaaggg aagagaaagt 240

gcaaactcag ttttatactg gttcggccac acccttgtgc ctacgtctag tccccaagca 300

acccgcttga gagttccact atcttgtaaa atccttttac aagttctaaa cacacaagga 360

caatccttcc tttgtgttca gatttcttta caacaagaga acctcggtct ctctantccc 420

tntgagaatt tagaaagaaa agaagaataa atctctcttg aaagagatag aatgtacaat 480

ctgagcactc aattat 496

<210> 4832
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4832

tctaatatca atttcgagca tgtcgatata ttatgggtct caatcggaca tccaagtaaa 60

aagttattat cgtttgaatt ngctctgaga ttctctttca atttcgagcg tctcgaaata 120

ttaagggact caatcagaca tacgagttaa aatttattgt tgtcttaatt tgctatgagc 180

tttcgttttc aatttcaaac gtctcgatat attacgagac ttaatcggac atccgagtaa 240

cgagttactg gtgttttgaa ttgctacgag tattcatttt catcttcgag cgttttgata 300

tattacggga cttaattgga catccgaata ataagttatt gtcgtttgaa tntgctcaga 360

gcttctgttt tcaatttcga gcgtctcgat atattacggg actcaatcaa acatccgaat 420

angatacgta ttggcgttga atttcacaga tgttttgttt caatcac 467

<210> 4833
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4833

ctcgcatgtc cgattcaggc gcatagcgta tcgagacgct agatatctaa catatgaagc 60

tctcgagaaa ttcaaatggt cataactttt cactcgcatg tccgattcag gcgcataaca 120

tatcgagacg cttgaaattg aacaactgat tctctcgaga aattcaaatg gtcataactt 180

ttaactcgca tgtccgaatc aggcgcataa catatcgaga cgctcgaaat tgaacaacgg 240

atgttctcga gaaattcana tggtcataac ttttcactct catgtgcgat tcaggcgaat 300

aacttatcga gacgctcgaa attgaacaac ggaagctctc gagatattca aatagtcata 360

acttttcact cggatgtcca ttcaggcgca tagcgtatcg agacgctaga aattgaacaa 420

cggatattct cgagaaatca tatggcataa cttttactcg catgccga 468

<210> 4834
<211> 487
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4834

atactctagc gtcacctgcc gcatgcaagc ttcacaatcc cacaacacct taattgatgc 60

agtatataag aaattctaaa taagattaac aatattctca ggcaaatctg ttggatcaag 120

tggcctcaga ataattaaga agggggggtt gaattaatta ttcctaaacc tttactaatt 180

aaaaaattac tcttctaagg cttttactaa gttgttaaga gaataaggag tagaagagaa 240

acttaataga aagtacaagc ggaaattaaa tgcacaacgg aaattaaaag agtagggaag 300

aaggagacaa atacataaga agttttatac tggttccgca acaacccgtg cctacatcca 360

gtccccaagc gacctgcggt ccttgagaat tctttcaacc ttgtaaaacn acctttacaa 420

gcaaagatcc acaagggatg taccctcct tgttctcttt gaaaccctag tggatgtacc 480

cttcact 487

<210> 4835
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 4835

aagctataga aattaaatgg tcataatctt taactcggat gtccgattct gtcgtataat 60

atatcgagac gctcgaaatt gaacaacgga ggcattagag aaattcaaat ggtcataact 120

attcacacgg aggtcagact caggcgcata atatatagag acgctaaaaa ttgaacaacg 180

gacgccttcg tgatattcaa atgggcataa ctattcactc ggatgtcaga gtcatgcgca 240

taatatatct agacgctcga cattgaacaa cggaatctct agagaaagtc aaatggtcat 300

aactgttaac tcggatgtct gattcangcg cataatctat ctagacg 347

<210> 4836
<211> 340
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4836

agcttccatt gttcaatttc gagcgtctcg atatattatt cgcctgtatc tgactttcga 60

gttaaaagtt atgaccatgt gaatttctcg agagcttccg ttgttgaatt tggagcgtct 120

cgatatatta tgtgccggaa tcggacatcc gagttaaaag ttatgaccgt ctgaatttct 180

tataagcttn cgttgttcaa tttcgaccat cttcatatat tatgcgcctg aatctgacac 240

tcgagttcaa agttatgacc atttcaattt ccgagcgctt ccattgttca ctttctagcg 300

tctctatata tgatgcgcgt gaatctgacc tccgagttat 340

<210> 4837
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4837

agctagtcat ttatactatt tcttanagtt attgtcatat aagcaatgcc taggctatat 60

atatatatat atataaggaa ttntcagatc tatttgtttg taacacaaaa gcaagattat 120

tattctttat ttaaaggcct gaagtaattt gtaaagcgtt tattcaatat atgcattctt 180

aagctcttaa ataagaacaa tataacgtta aggtaattaa attgcttaat taccatgaat 240

tcaattaata tttttcagta gtttattatt cattataatt aaatcattct atctaatact 300

cgctgttaat taacgctaat attctaatca tgcgaattta attactttaa ctaaaatcaa 360

ataccatcat ttatgttttt aattatcata agtttttgct ataattctta aaaaagtaga 420

gacaaactca ttaattaaag tgatgaattg aattta 456

<210> 4838
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4838

tctctgagtc acctgcggca tgcaagctng gagtggaagg agaccatcaa ttagacacct 60

tagtagtttt gggtacataa catatgcata tgttttagac caactcaaga agatattgga 120

cgacaaaggt gaaaggtgta ttttcattgg ttacgacata gatttaaagg catacaaact 180

ttacaatcca tagacaacga aagtgattat cagttgatat gtgacgtttg atgagaaagg 240

catgtgggat tggtcgacaa gatcccagag gaagctagtg gtgactcttg acaactatga 300

agaaaatgat aaacaactag atctaacccc cgatgaacca aaatcatcta ggaggccaca 360

gaggaaacct caattgctag ttagattaca tgcttgtatc atgtctaatg ataatgatcc 420

ttccaacaag gagaatatca at 442

<210> 4839
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4839

gctctcgata tattatgcgc ctgaatcaga cttccgttac aaaagttatg atcatatgaa 60

tntctcgata tattatgcgc cttaatcgga ctntcgtgtg acaagttatg tccatttgaa 120

tttctcgata gcattcgttg ttcaatatcg agcgtctcga tatattatgc gcctgaatcg 180

gacttccgtg tgacaagtta tgaccatttg aatttttcga gagcatcacg tgttagattt 240

cgagcatctc gatatattat gcgcctgaat cggacatccg tgtgacaagt tatggccata 300

tgaatgtctc gagagcatat cgtgctcaat ttcgagcgtc tcgatatagt atgcgcgtta 360

atcgaacttc cgtgtgacaa gttatgacca 390

<210> 4840
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4840

agcttctcga tatattatgt gcctgaatcg gacttccgtt tganaaatta ttaccatttg 60

aatctctcga gagcnttggc tgttcagttt cgagtgtctc gatatattat gcgcctgaat 120

cggacttttg tgtgacaagt tatgaacatt tgaatttctc gagacctttc ggttttcaat 180

atagatcgtc tcgatatgtg atgcgccaga atcggacttc cgtgtgacaa gttatgacca 240

ttggaattat cgagaccttc ggtgttaatt tgagggctcg atatattatg gcctgaatcg 300

gctttcggtg aaagtatgaa catggaattc tcgagccata cgatgtccat tcgagctctt 360

gatatattat gccctg 376

<210> 4841
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4841

agctngtatt gatngcgaat ntacgaatgt gggcagcttt tatatatata tatatagaga 60

gagagagaga gagctatgtt attattacag taagattgng gcattatttt tccttccatt 120

gattcacatg caggctatat tgntattatt attttttttt tgagaaagtt atgttattac 180

tgggtaaaga ttggggagtt atttttcctt ccattgtttc acatgcaggc tatgtaatat 240

ggatatcnat tcgcacgtgc agcaagtcat ttgctttgct ttccatgata gtaggttgct 300

catggaaact tgtcaagaag canaaaattt gcggaagatt gtgactcttt tctacctcga 360

ctgacaattn ttatccatgt ctatgcatta tgtctccgca taagagtggg ctgngggaga 420

gtagtgcttc tttttggttt gaattaataa tattcagtga ta 462

<210> 4842
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4842

ttaaggctga agttgagaaa caatgtggat aacaaattaa gaatgtgaga tcagatagac 60

ggaggatgga caagcacgga ggatggacaa gcaccaggtt catttgcgaa atttcttcaa 120

gaacatggga ttgttgccca atacactatg cctggttctc caaatcagaa tggtgtcgta 180

gaacgaagaa atcgaacctt attagacatg atgagaagca tgaggagtaa tgtaaagctt 240

cctcaattnt tttggattga tgctcttaag atggatgcgt atatattaaa ccgagttcca 300

accaaggcta tctcanagac acctttgag ttattcaagg gttggaaacc aagtttgcaa 360

catatatgca tttggngatg accatcttga gtangaatta taatccacaa gagaagaaac 420

tagaccctan gactattact 440

<210> 4843
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4843

agcttgttag ctngatgact tgtcaganac aatttgttta ctagcgtcaa atcagagaat 60

taaacctgga catcttttag aaatgcttgt taagtcaaga caggtagaaa tccagtgtct 120

ccatttggga cctactgctc agtaaatctg ttgagggaaa aattcacagc ctccgtctta 180

acatcattgg ggttctgaat ccattcacac tgaataagaa ttccttgaag accattataa 240

tgtcttctga aattgatgac tttatggaaa tacgttgagt tgctgtcccc ttcttttagc 300

catttagctc tagatttctg ccttaataaa gattcataag ctattgaggc ctcccacaat 360

tcttggtgaa ttctctctaa cctttatctc atcat 395

<210> 4844
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4844

gcttganatg aacaacggaa gccctcgaga aattcatatg gtcataactc gtcatattga 60

agtccgattc acgcgcatac tatatcgaga cgcttgaaat tgaacaacga atgctctcga 120

aaaaatccta tggccatatc tgggaccacc ggtgtcggat tcatgcgcat gatatatcga 180

gacgctcgaa atctaacaac ggatgctctt gacaacattc aacgtgcata acttgtcata 240

cggaacaccg atatacgcgc ataatatatc gacacgctcg aaattgaaca acgaatgctc 300

tccataaatt aaatggtcat cacttgagac acggcataca gagga 345

<210> 4845
<211> 436
<212> DNA
<213> Glycine max

<400> 4845

tgctcctacc ataagtgcct cgtggagaca attatagcct ctttctgcac cgtcatcgac 60

ccgtacctca tcggaaaccc aaacagtacc tcatcggcgg tcgacaactc cgccattgtt 120

atctctggta tggcgtcatc cttgggcgac gccctcatct gatctatcac ctcaatcggc 180

aatgtcctca aaaccctata cagaaccccc tccacacctt ccactctgtc catgtcggtc 240

tacaacctct tcgccatccc tccatgccgt ctgagagaga cgaccactac gacgacgctg 300

ctttacgtgc tggcactggc gtgtaatgtc acgcgcgcgg cattgtctgg aagaacatca 360

gcggcagatg gcggtgcggt gacatcgggg gagtggagca tctccagctt tgaaccctaa 420

ttgggctgag atcatg 436

<210> 4846
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4846

agctngagaa tgataatctt ctaacacttt gtttgttatt gtgcagttag tctcaattgt 60

cactattata aaatacatct tctacatcgg ntatgtagga ctntctacat cnggttttaa 120

ccaatgttga aagtattatt gttaacatca gttttccaag accgatgttg acatagaatt 180

gacaacgtcg gttatctaaa taaccgatgt tatataataa gaattacacc aaaaaaagtg 240

tatgaatggt gatagttgac atcggttttt cacaaaaccg atgttaactt atagattaac 300

atctttgttg tataaaaatc gatgttaact tatatattat catcagcttt ttataaaaac 360

tgatgttana tggttatagg ttaacatcag ttcttaaaca aaaactgatg ttaatctata 420

agttaacatc cgttcttata caaagccgat gttaacggtt tgaatataac atc 473

<210> 4847
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4847

tgttaccttg cagtttgtaa aggccattct gccttgtacc cttcattact tgtaatgaac 60

ctttgaatac ctttaaagtt ccaccttctc ctttgaatga acatccagat taatctagca 120

ttcccaaaga gagtatgttc cttttaagct caggaacatg cctcacatca gggagcagct 180

ttacagatcc atcttgtatc ttcaatataa tagttccaat gccaatgaca ttacatgcca 240

tattgtttcc catgagaaca ttccctccat ctatctcctt ataagagctg aaccattcca 300

tattgggtgt catatggaat gagcaacccg agtctagaat ccattcctca ttgtgctntt 360

cagtagagat ggagagcact taatcacttt catatgcatc atccaccact gctatatcag 420

agtcatcatt gtatcacca 439

<210> 4848
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4848

tcttcctgtt tcgtcttcca tgcagctcgc tgatattttc acgaagcctc tatctccagc 60

tctctntcaa ggtctctgtt ccaagctggg aatgatgaac atccattcct agcttgcggt 120

gggctctcaa caatagcttg ttagttagaa aaagctgtta gagttagttt tctctctggt 180

gtaactaact aaccacccgt tttctctatc cttcatatgt gtataaatat cttacgaatt 240

cagtaatana gacatgcaat tatttggtca tctcacgtac acttgcgtcg tttctctctc 300

ctttatggct gttgatccat ttaatatttg ttccgtgctt tcccctgnac gacgttttcg 360

agtagagaaa tgatgcattt cgaccggtgt cgttggaagc gaacgacgaa ttgtgtagtg 420

aaagagaagg actctcgcgt 440

<210> 4849
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4849

accttacctt ggctntcatc anatntgcct tttacctcaa gataatccca aacaactttt 60

cacactcatg gtggacatta caagtatcat gtgatgtcgt ttgacctctg taatgctccg 120

acaacatttc gagccactat gaatgacatt ttttgccctc tgttgtgcaa aacggtgatt 180

gcattttctg atgatatttt ggtctatagt gctgaccatg atcttcacat atcccatctc 240

tcttaagttt ttgaaagttt ggctcatcat tagttntttt ctattaaact tgagaaatgt 300

gtgttctatc agccttagtt gtctacttag gccatgtcat tttttgcggg tttagtggcc 360

cttattcctt ccaaggtcca ggcgattctt aagtggccaa ttcctaagaa tattaaaggc 420

ttgcacatcc tcttatgttt gttgggcttt ta 452

<210> 4850
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4850

cttccctttt gaagctcgat gtgagccata tctcattgga tgtgaatctg ctgaaagaat 60

tngcttatct taagaattcg acccttatgg accttatgaa taacagattc tctggagggt 120

tgacattgag tattcaagag atgtattctt tagaggaaat ggttctgtcc aacaatgcaa 180

taggtggnga tatcatgacc cttaagtggg aaaaccttca caacttgatc attttggatc 240

tctctaacat ggagttgaaa ggggaaattc ctgagtctat atcggaatta aagaggttga 300

ggtttttagg ccttagtgac aacaacctca caggcaacct ttcaccaaat ctatctactc 360

ttccttgtct caatgcacta tatgttagtg gcaacaattn gacaggagag cttatattct 420

ctgtgtgagt ttatg 435

<210> 4851
<211> 412
<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 4851

agcttcatgc ttatgtatgt atggcanaac ttcattattg ttgttcaaga catacaagtg 60

agcttgtaaa aaatcttcta cacttgaagt gatcacatgc aatcctcttg aacccttacc 120

acccactctg tcatcatgcc gagacttatg aaggccaaca ggtttagcct tctcaattta 180

ttctgaacaa aattcaatgg cttcttcagc aatgtacctc tcaacaatag atgcttctgg 240

atgataaaga ttctttgtat acccttttcaa gatcatcatg tatcgctcaa ccgggtacat 300

ccaccataga taaacaggac cacaacattt gatttctctg actagatgca caatcaagtg 360

aatcatgatg tctaagacag caggcggaga atacatctcc aactgacaca gt 412

<210> 4852
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4852

gattcagcta tcggcgaagc tgttcatggt catgtntgga aacatgggtt tgattctcat 60

gtgtttgtgc agactactct gattgagttt tattcaactn tcggtgatgt gggtggctca 120

agaagggtgt ttgatgatat gcctgacaga gatngttttg cttggacgac gatgatttcg 180

gctcatgttc gggatgggga tatggcttct gcaggcagat tgtttgatga gaatgcctga 240

aagaatgtag ctacatggaa tgccatgatt gatgggtatg gaaaattatg gaatgctgag 300

tctgtctgag ttttgtttaa ccaaatgcct gcaagggata ttatttcttg gacaaccatg 360

atgaattgct attctcggaa canaaggtat aaagaagtga tagcactttt tcatgacgtg 420

attgacaaag gaatgattcc tgatgaagtg actatgacca ccgtcatttc agcat 475

<210> 4853
<211> 485
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4853

agcttaagtg cttatacaaa anatgggctt caagatacta taatgtggaa aataataaat 60

aaagtttctc tcgaanaaag actaacaaag aanacatcat tggtgatgct agctatttta 120

gtttgtcaaa ttatttatat ggaagttatt taataattta gagacaaatg tgtataattg 180

tatattattg taaaaagata ttattcaaca ttgatttatt tttcttcata aaattctttt 240

aaaaatgaaa taataaatga attgctatcg agaactaaga acaactgatt aatcgtctta 300

atacaattga ttgatgcagg aaatgtatcc ctataaccac ctaaagggaa acatcatttt 360

atataaaaaa actggttcta tatntacttg actgagtctt tcgttataat ctagaaatgt 420

aataaataaa tagacacctc tttagcatca tagatatttt ttatatgata tatggtcaca 480

ttatg 485

<210> 4854
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4854

ctgccaaccc atggaagctc ctaatatctc ccacactntg tgtggtgtgc cattcttgga 60

tggccttgat tttctcatgg tccactagga ccccatttct accaactaca aaccctaaaa 120

aaactatatt atctacacaa aacgtacact tctctatatt tgcataaagg gtgtttttgc 180

taaggaccga aagaacttgc ctgagatgtc ctcagagatc atctaagctc ctactgtgca 240

ctaaaatatc atcaaaataa acaactacaa atctacctat gaaatgcctt aagacatgat 300

gcataagcct cataaaggtg cttggtgcat tagtgagccc aaaaggcatc actatccatt 360

catacaaacc aaacttggtc ttgaaagcgg ttatacactc atcacccttt ttcataccga 420

tgtggtgata ccca 434

<210> 4855
<211> 316
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4855

ggaatcatac ctcactgtga taagttatga gcgtatgaat ttcacgttat cttgcgctgn 60

ccaatttgca gcatctcgtc ttattatgcg cccgaatcgg acatccgcgt gaaaagttat 120

gaccatttgg atctgtcgag agctttccat gacgaatttc cgacgtatcg atttaatgtt 180

atccaccgct cggacatcgc gagtgaatac gttctgacgc atttgaattt cacgagagct 240

ttcgttgctc aatttcgagc gtctctatat gtgatgcgcc ccaattggac atccgagttg 300

aatgttatga ccattt 316

<210> 4856
<211> 303
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4856

agtcacctgc ngctgcagct tgcaaaattc aacggttaga acttgtcact tgtatgtccg 60

actcaggcgc atcacatata gaggcgctcg acaaggaaca acggaagatc tcaagaaatt 120

caaatggtca taactcttca cacggatgtt cgattatggc gaatcacata tctcaacgct 180

aaaaaatata caacggaagc tcttgagaaa ttcaaatggt cataactttt aactgggatc 240

tccgattcac gcgcatcaca tatagaggcg ctcgaagatg aacaacgaaa gctctcgaga 300

aat 303

<210> 4857
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4857

tatnntgaat tgtactctat tgtataaagg atcgattata agttattntg aacttatttg 60

tataaaggat cgattatgca tgattcacaa acataaatct atggaaatat aaaacttaag 120

attgtttatc caataccata taatttactt attttaacca acatttatat cgagaacttg 180

tttaataaca agttttagtg aaataatatt tatttattac actttacggc aattatagat 240

cctaaaatgc cttcttaata gctgctgcca attcatcata ggctacttcc caagcactgc 300

tcaactcgtc actccatttg tccccaactg tcttcttaat agcatatgcc aattcatctc 360

aatttccttc cacccaatca atggggaaca gtgacaggac gactactagt cctagatggg 420

tatatgtata tngcttaatt aacttcattn tattctttaa ttacata 467

<210> 4858
<211> 301
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4858

tctggtggga catcttgact tgctttccaa tctgacattc accacagatt ctgccttctt 60

ctattntcag attgggaatg cctctaacag catctttgtc aatgattttc ttcatgcctc 120

ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcatcttct ttggagaata 180

gacatgtgga ggagtagctg gtttcttgag gtgtccataa gtaacagatg tactttgatc 240

tcctgccctt cattaggact tcactcttct catttgtcac caagcattct gatctttgtg 300

a 301

<210> 4859
<211> 276
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4859

agctngaatc ggacatccgn gtgaaaagtt attaccattt gaatttctca agagcttccg 60

ttgttcaatt tcgatcctct cgacatatta tgcacccgaa tcggacatct gtgtgaaaag 120

tcatgatcat ttgaatttct cgagagtttc cgatgtttaa tttcgagcgt atcgatatat 180

tataaccctg aatcggacct cagtgtgaaa agttatgacc atttgaattt gacgagagct 240

tccgttgttc aatttctaat atcactgtat gtgatg 276

<210> 4860
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4860

agcttatgct gcaaacattt ataatagacc tcctcagcag caaaaccaac aacaacagaa 60

taattatgat ctttcaagca acagatacaa tccaggttgg agaaatcatc caaatctgag 120

atgggcaagt cctccagaac aacaacagca tgtccctcct ttctagaatg ctcctggtcc 180

aagcaagcca tatgttcctc ctccaataca acagcagcag tcataacaaa gacaacaagc 240

aactaaggct cctcctcaac cttccttaga agagttagtg aggcaaatga ccatccagaa 300

tatgcaattt cagcaagaga caagagcctc cattcagagt ctaacanata agatggggca 360

gatggctact acagtgaacc aagctcagtc ccaaaattat gac 403

<210> 4861
<211> 325
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4861

tctagatgag ttatgtctgc gaatcggaca tcctgtgaaa ttgtttttct catttgaatt 60

tctcgagtgc ttccgttgtt taatttcaag cgtctcgata ttntatgtcc tcaaatcaga 120

catcggagcg aaatgttatg accattcgaa tttgtcgaga gcttccgttg ttcaatttcg 180

agcgtctaga tgagttatgt caccgaatca gacatctgag tgaaatgtta tgaccattcg 240

aatgtgtcga gagcttccgt tgttcaattt cgagcgtcta gatgagttat gtcaccgaat 300

cggacatccg tgtaaaaagt atgac 325

<210> 4862
<211> 314
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4862

ggaatcggac atccgtgtga naagttatga ccatttgaac ttctcaagag cttccgctgg 60

tgagtttcga tcctctcgac atattatgcg cccgaatcgg acatctgtgt gaaaagtcat 120

gagcgttcga atgtctcgag agttttcgat gtttaatttc gagcgtatcg atatattata 180

accctgaatc ggacctcagt ctgaaaagat atgaccattt gaatttgacg agagcttccg 240

ttgctcaatt tcgaatgtca ctgtatgtga tgcgcctaaa ttggacattc gagttaaaag 300

ttatgaccat ttga 314

<210> 4863

<211> 318
<212> DNA
<213> Glycine max

<400> 4863

agcttttgag aaattcaaat ggttataact tttcacacgg atgttagatt aaggcgcatc 60

acatatagag acgcacgaaa atgaacaacg gtagctctcg agaaattcaa atggtcatca 120

cttttcacac tgaggtctga ttcgggctta taatatattg atatgctcga aattaaagat 180

cggaagctct ctagatattc aaatggtcat aacttttcac acggatgtcc gattcgggcg 240

cataatatgt cgagaggctc gaaattgaac aacggaagca ctcgagaaat acaaatggtc 300

ataacttttc acacggat 318

<210> 4864
<211> 332
<212> DNA
<213> Glycine max

<400> 4864

agcttcctat ggatttaata gtgtcaccat ttttcaccaa gtaaaccagc aaagagggga 60

tccctcttgc tgtctgattt tcaattggac aagcacgtga attggaattg tgagcttagc 120

accaattaca atgttgacaa gagcataata attctgaccc atcattgcct gacatgtggt 180

gaggccttgg aaggtttctt ttaccaactc ataataagtg tcattcttgc ttgtagagta 240

gggtgtgtta tactggtaaa tgtttcctga aacaaaacat atgaacaatg attgacttat 300

cggacttttt aaatatacat tataaaacta at 332

<210> 4865
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4865

agctntctaa acagttaaaa ttgagaagag atacaactgc ataaagagtc atctattttt 60

gaccaaactc aaattttgat tttttataaa ttatttcttg ttataaattt gattttgtat 120

aaattctcta ttgttatttt gattttgtat gaattctctc ttgttatant ttattttcat 180

taaccttgat gcgtacgatt tgntttagct tgttcttttt cctttatgtg aggtaaattt 240

cctacaaata aatcattatt tgatccagat attatcaaga ctaataggaa gaacaagaag 300

gaaaagaaac aaacaacaac taagccaccg ggtgaatctt cttgtactaa t 351

<210> 4866
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4866

agctntagca actctttctt tntgtttagt caaaacctct aatgctctta atctctcctc 60

atctaaatca accaactcat ctaacatcat tttccaataa tggtcgattg gaatgtccat 120

ttgtttttgt accctggctg attgcaaatg tatttcgacc ggaagtacag catcatgccc 180

ataagtcagt cgaaatgggg tagtattagt tgattcctta ggagaatttc tacatgccca 240

tagaacttga tctaacgtct tattccaatt tcttggcttt tgggcaatgt gatttttaat 300

caagttaatt acaatcttat tggctgcttc gacctgacca ttagtttgcg cgtaatatgg 360

tgttgaggtt aataatccaa agccaatttt tgggcaaatt cttttatttt ctgtcacgaa 420

aaactgaa 428

<210> 4867
<211> 316
<212> DNA
<213> Glycine max

<400> 4867

tctcgatata ttatgcgcct gaatcagact tccgttacat tatttatgac catatgaatt 60

tctcgagagc cttcgttgtt caatttcgag cgtcttgata tagtatgcgc ctgaatcgga 120

cttccgtgtg ataagttatg accatttgaa tttgtcgaga gcttccgatt ttcaatttag 180

agcttctcga tatattatga acctgaatcg gacttccgtg tgacaagtta tgaccatttg 240

aatacctaga tagcattcgg tgttcaattt cgagcgtctc gatatattat gcgcctgaat 300

cggactttcg tgtgac 316

<210> 4868
<211> 370
<212> DNA

<213> Glycine max

<400> 4868

agcttctcga tatattatgc gcctgattct tattttcgtg tgaaaagtta tgaccattgg 60

aatttctcga gagcttccga tgttctattt cgagcgtctc gatatattat gcacctgaat 120

cggacttccg tgtgacatgt tatgaccatt ttagtttctc gagagtttct gttgttcaat 180

ttcaagcttc tcgatatatt atgtggctga atcggacttt cgtttgaaaa gttatgacca 240

tttgaatttc tcgggagctt tggttgttca atttcgagcg tctcgatata ttatgctcct 300

gaatcggact ctcgtgtgac aagttatgac catttgaatt tcacgagagc attccgtgtt 360

caaattcgag 370

<210> 4869
<211> 406
<212> DNA
<213> Glycine max

<400> 4869

cttgaaatct gaagtttaat attcaaatga tcaatgttct tataaaatgc acacacatga 60

cctctattta tagcctaagt gtcacacaaa attggagggt ttgaaattga atttgtggag 120

ccaaactttg gagccaaaat ttcactaatt atgattagtg aattttattt atggttcagc 180

ccactaatcc aagatcaaat ataatattct ccactaagtg tgcttaggtg tcatgaggca 240

tgaaaagcat gatggacatg cacaaagtgt gactatatga tgtggcaatg atgtgtagta 300

agcaaatgct cacctgcccc tctaaaattt aattggatgg agcttctacc aattcaatta 360

aatttatttc caaccacaca cattatatat ccacttaatg catgtg 406

<210> 4870
<211> 308
<212> DNA
<213> Glycine max

<400> 4870

ctgtcaaatt gctgggatta ctattgctgc gaccataact ctatgcaatt cctctcatga 60

tacccagata tgtaagaatt gtaagatagg aaaacaggtt ccgcgtcagc caggactatg 120

tggagcaatt gttcctcgat cctgtgatca tgttccataa gtttagtcct tgctttagtt 180

cgctttgctt gactcatgat atgctctact cttttattac tattttggga tgtctcttac 240

taggtaaagg atatttgcaa cctggtgtag aaacatgtcc aattgatccc tggctcgtgg 300

atcctgac 308

<210> 4871
<211> 419
<212> DNA
<213> Glycine max

<400> 4871

agctagcatg gggctttggc ttgtgtgata tggccattca ctccgccaca gtggatggag 60

cttgaacatt ttgctaattt agttgatgaa caattattta gttattaata catagctttt 120

ttgttttgtt aataatataa ttctcaccat tatttagtta ttaatattta gtttttatg 180

cattaacact agattgcttt ttaatggtat attgcatatt aaaaaacgac ccgtgcgtta 240

cgcacgggtt tatattataa taacgatatt gtgatagcaa tataggtcat tttaaactta 300

ttaatactat ttagtttttg gattggacta cataaaccaa tcattttatg tctaaaaata 360

tttctttta aatatgataa tagtgtcata atgatttttt aattcatagc ctcctcctt 419

<210> 4872
<211> 321
<212> DNA
<213> Glycine max

<400> 4872

agcttcaaca tcagaccact ttttggtgct ggaactactt cacatggact tgatggggcc 60

tatgcaagtt gaaagccttg gaggaaagag gtatgcctat gttgttgtgg atgaatcctt 120

caaatataaa cgtgacgaga ctatccttat cttctagtgg cacaacagtc tagtccaaag 180

attactccta ttaagtcaaa gagaaagcga ctgtgtgatc aagagaacca ggattgacca 240

ctggcggaac ttagagaaca caggatgaat ctacttttat catcctgagg aagcgcatgg 300

ttaaacaatc actaattctt a 321

<210> 4873
<211> 325
<212> DNA
<213> Glycine max

<400> 4873

agcttaccaa agactacatg tttcctgcat aatggccaca taactgtaca gtcaggcatt 60

ttaccttgcc aacccccaca atcaaaaatc aaaatagaac atccatgtaa gaagtaaaat 120

gctgccaata attaaccaga cacacaaacc tatcaagatg atgatcagct ttcaaagtga 180

taatgaaatg ggaaccgagt gtgtcacggt ctgcaattgc cattgataaa aggccagtag 240

catcatgctt tagcctatgt gaactcatct aaacaaatca cagatacata atacattaat 300

tattaaatac aacactacag tacta 325

<210> 4874
<211> 301
<212> DNA
<213> Glycine max

<400> 4874

tatttcagta caatacccaa agcttgttga ttttctcctt cattctgctc ccaattccaa 60

ttcttttgtt cttcaaagat tacatctttg ctaattataa tatttctgtt gactggatca 120

aataatctat atgccttgga ttcatcactg actccaaaca aaacacattg cttactcttg 180

tcatccaact taacccgctg ttggtctggt gtatgaacat gagctaggca atcaaatacc 240

caaaaataat taacagaagg cgtaattcca ctccatgctt ctttaggagt tttgtcttgc 300

a 301

<210> 4875
<211> 452
<212> DNA
<213> Glycine max

<400> 4875

tctcatcaat ggtattataa tttccatcaa gtcattacct catatggttt tgaggcaaat 60

gtagttgatg attgtgtgta tcataagttc agtgggagta aatacatatt attgctagca 120

atgatatagg cttcttggaa gaggccaaaa gatttctaac gaaaattttg aaatgaaaga 180

ttttggggaa gccttttttg tgatttcaag atactaagag atcactctca aggtatccta 240

aggttgttac acgtgaacta tatcgataag gccctagata gattcagcat aaaagatagt 300

aaataaggag attccccaat agctaaagga gataaatgca gtctcaaaca atgcctcaat 360

aatgaccttt aaagaattga gatgcaagag atttcatata tgtcaacagt aggaggtcta 420

atgtacacct ccagttgtac tcatcccgac at 452

<210> 4876
<211> 421
<212> DNA
<213> Glycine max

<400> 4876

gacactatga aactaagctt aacattcaat ttcgagcatc tcgatatgtt acgggactga 60

atcttacatc cgagtaaaaa gatattgtcg tttgaatttg ctcagagcat caacattcaa 120

tttcaagcat ctcgatacat gacgggactg aatcagacat tcgagtaaaa agttattgtc 180

gtttgaattt gctcagagca tgaacattca atttcgagcg tctcgatata ttacgggact 240

caatcaaaca tccgagtaaa aagatattgt cgtttgaatt tgcttagagc atcaacattc 300

aatttcgagc acctcgatat gtgacgggac tgaatcagac atccgagtaa aaagttattg 360

tcgcttgaat tggctcagag cttcaacatt caatttcgag cgtctcgata tgtgacggga 420

c 421

<210> 4877
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4877

agcnttgagc caattaagac gacaatatct ttttactctg atgtctgatt gagtcccgtc 60

atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120

tttttactcg gatgtctgat tgagtccgat aatataacga gacgctcgaa attgaatgtt 180

gaagctctga gaaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240

taatatatcg acacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300

aatatttact cggatgtctg atttagtccc gtcatatatc gagacgctcg aaattgaatg 360

ctgaagctc 369

<210> 4878
<211> 393

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4878

ntactgaaag agatcactcc tcgatgtacc aaggttgaat tgcatgatcc tcaatggtta 60

gatacaatga aggaagaata catggttctg acgcagaata aaacatggga tctcgtccct 120

ttgcctcctc ataggaaggc tattggttct aaatggatat atcggttgaa atacaatgtt 180

gatggctctg tagccagaca taaagctaga ctggtagctc aggggtattc tcaacgacca 240

ggacttgatt ataatgagac attcagtccc gttatcaaac acgtaaccat tcgaacggtc 300

ttgagcattg ctgtcaccag aaaatggaat atacgacaag tagacgttaa caatgctttc 360

ctaaatggtt ccattcaaga ggaagtatat atg 393

<210> 4879
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4879

tgagccaact canacgataa taactttnta ctcggatgtc tgattgagtc ccgtaacata 60

tcgagacgct cgaaattgaa tgttgaacct ctgagccaat tcaaacgaca ataacttttt 120

tcacggatgt ctgattgagt cccgtaacat attgagacgc tcgaaattga atgttgaacc 180

tctgagcaaa ttcaaacgac aatatacttt tactcggatg tctgattgag tcccgtaaca 240

tatcgagacg ctcgaaattg aatgttgaag ctctgagcca atacaaacga ccataacttt 300

ttactcggat gtctgattga gtcccgtaac atatcgagac gctcgaaaat gaatggtgaa 360

gctctgagcc aattcaaacg accataactt tttactcgga tgtctgattg agtcccgtac 420

atatcgagac 430

<210> 4880
<211> 338
<212> DNA
<213> Glycine max

<400> 4880

agcttcaaca ttcaatttcg accgtcttga tatgttaagg gactcaatca gacatccgag 60

aaaaaagtta ttgtcgtttg agttggctca gaacttcaac attcaatttc gaccgtctcg 120

atatgttaag ggactcaatc aaacatccga gtaaaaagtt atggtccttt gtattggctc 180

aaagcttcaa cattcaattt cgagcgtctc gatatgttac gggactcaat cagacatccg 240

agaaaaaagt tatcgtcgtt tgagttggct caaagcttca acattcaatt tcgagcgtct 300

cgatatgtta cgggactcaa tcagacatcc gagtaaaa 338

<210> 4881
<211> 308
<212> DNA
<213> Glycine max

<400> 4881

agcttgtagg aaattcaaac gacaataact ttttactcgg atgtccgatt gaatcgggta 60

atatatcgag acgctcaaaa ttgagactag aagctctgag caaaatgaaa tgacaatata 120

cttatacacg gatgtccggg tgagtcccgt aatatatcga gacgctccaa attgaaacgg 180

aaactcttag aaaattcaac gacaataact ttttactcgg atgcccgaca gattgccgta 240

atttatcgag agatgctcca aattgaaaac agaagctcgt atcaaataca aacgacaata 300

actttta 308

<210> 4882
<211> 285
<212> DNA
<213> Glycine max

<400> 4882

tcagctgtag aagtcaattt cgagcgtata ctagattctt tactcaagca gacatccgag 60

caatacatta ctgtcgttgg aattagctca gagcttcaga attcattttc gatcgtctcg 120

atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcgtt cgaatatgct 180

gagagcttca tcattcaata tcgagcgtct cgatgttcta tgggacttaa tcagacatgc 240

gagtaaaaag ctattgccga ttgaatacgc tgagagctgc aacat 285

<210> 4883
<211> 238
<212> DNA
<213> Glycine max

<400> 4883

agcttttgag aaattcaaat ggtcattact tttcactcgg ttgtcagatt caggcgtata 60

atatatcgag acgctcaaaa tagaacagtg gaagctattg agcgagagaa atggtcataa 120

ctgttcactc ggaggtccga ttcaagcaca taatatatcg agaggcccga aattgaacaa 180

cagaagctct tgaaaaattc gaatggccaa ttctttacac tcggatgtcc gatcaggc 238

<210> 4884
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4884

ngcaactttc tcagcagcca cgtaacacaa cacttcatgg ccttcatcct tctcttccac 60

cttaacctca accctcttct tcttctgctc acattcccca tacacctctt cctcagcttc 120

atcatcatct tcatcaattt caacaacctc aaaaggacca tcatcctcac tctctcccag 180

aaactcaaaa ccccttttcca tagatttttc aatcttcgca ctcgcacctt cacctccacc 240

cttgagttct ttcacgaaaa ccaattcatc atcatcgtaa tccaccactc tcctcctctt 300

ccgactcctg atcaaaccac cccgaacctc gactcctttg cttcgcgtcc tacgagctgg 360

tccagtatac tcattcattt caaacaacaa aaccaacaca naaaaaagac ccttttctnt 420

cctgtttctt cgaacaataa tcagaaacac cccacaacgc aagatc 466

<210> 4885
<211> 346
<212> DNA
<213> Glycine max

<400> 4885

tctcgatata ttacgtccca aattcggaca tccgtgtgat atgttatgac cattcgaatt 60

tctctagagc ttccattgtt caatttcgag agtctagatg agttatgtac gcgaatcgga 120

catccgtgtg aaaagttatg accattcgaa tttctcgaga gcttccgttg ttcaatttct 180

agcgtctaga tgagttatgt acgcgaatcg gacatccgtg tgaaaagtta tgaccattca 240

aatatctcga gtgcttccgt tgtgcatttt cgagcatctc gatatattat gtcccccaat 300

tcagacatcc gtgtgaaaag ttatgaccat tcgaattctc gagagc 346

<210> 4886
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4886

taacataagg catgtgaagt gggtggaatt cctatagcaa ttcccttatg ttatcaaaca 60

taaaaaggga aaaggtaata ttgtagccga tgctctttct cggcgtcatg cattactttc 120

tatgcttgaa acaaaattga ttggtcttga atgtttgaaa agcatgtatg aaaatgatga 180

aactgttgga gaaatttgta aaaattgtga aaaatattca gaaaatggtt tctttagaca 240

tgaaggcttt cttttcaaag aaaacaaatt gcgtgtgcct aaatgttcta ctagaaattt 300

gcttgtttgt gaagcacatg aaggaggttt aatggggcat tttggggtcc aaaagactct 360

atanacatta caagaacatc tttattggcc tcatatgaaa aaggatgtgc agaaatattg 420

tgaacatcgc attgtattgt aaaaggcaaa gtct 454

<210> 4887
<211> 333
<212> DNA
<213> Glycine max

<400> 4887

tccttaagaa gattcctaaa gaagctagag cttagctaca cttacctctc taatagctaa 60

gctcacctcc ttgagatgag aagctagaac ttagctacac acccccctata atagctaagc 120

tcacccccat gacaaaaaac atgaaaatac aaaaaaaaag tccttactac aaagactact 180

caaaatgtcc caaaatacaa ggctaaaacc ctatactact agaatggcca aaatacaagg 240

ctaaaacgaa ggaaaaacct attctaatat ttacaaagat aagcgggctc atacttagcc 300

cattggctcg aaatctaccc taaggctcat gag 333

<210> 4888
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 4888

tacggacact ataaaactca agctngtaaa cgattctatg aaccatacca agttttggac 60

catattggct aggttgcata caaacttcta ttgcctgaga gatcccgcat tcatcctgct 120

ttccattgtt ccttccttaa acccttccac caaacatctg aagaatattg tgtcccacta 180

gcattgactt ccaatgatgt tgaaaatcaa ccagctatct ctcttttagc cattctgggc 240

actcattatg cctctgagtc tactgatcca aagctaaggt attagttcaa tgggcagggt 300

tgtctcttga tgacattaca tgggaagatt gggaagaact caagactgtc tatcaccttg 360

tggacaaagt gtttttggat ggcgcaaggg atgatagga 399

<210> 4889
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4889

tatacaaact gactcattac ctttgttatg caaacgctat tattattatc aagttcagaa 60

ggatcaatct catactccgg gacttcacga gcattttgca catgcatggg agccatctac 120

caaaaaaaaa aaagaagttc acaattgaaa cagatatcat aaaccaacta ttctaaaaag 180

agtttaacaa ttatgcaatg tcagttgaat tgttttatac gtaaaaatca acccttttt 240

tttactctct aacagtaatt ccgatattat tatagtcttt ttagtgaata atacaaaaga 300

aaataataga agaaactttt ttgaataata gttacaaatt ccttcatatn tttagagaca 360

accaacttat atgataattt gtaactaaac atatatcana aactgctggt atgtgtgttg 420

actttcataa tcattatctt aaaagtcata caaaactact aaa 463

<210> 4890
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4890

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60

tcttctattt tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120

cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcatc ttctctggag 180

aatagacatg tggaggagta actggtttct tgaggtgtcc ataggtaaca gttgtccttt 240

gatctgttgc ccttcattag gactttactc ttctcattng tcaccaaaca ttctgacttt 300

gtgaagttta cattgaatcc ttcatcacac agctgactga tgc 343

<210> 4891
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4891

cttgtcctct nttcgtctgg aacatgggta taggcaatgc tttcaaacac tntgaggtga 60

gagatcccgg gcttccttcc actccatgct tcttgtggtg tcttctcatg cacgcttttt 120

gttggggaac agtttgttag gtaaactgca catgccactg ctttagccca aaactccttc 180

ggcatcttct tgctcttgag catgcttcgc accatgttaa gtatggtccg gttctttctc 240

tctgctactc cattttgttg tggcgatctt ggcactgtca gtgggcgacg gattccatgg 300

tcttcacaat atttgttgaa cttaattgaa gtgaactctc ctcctcgatc agatctcatg 360

gccttgatgg aaagaccagt ttctttctcc ac 392

<210> 4892
<211> 299
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4892

ntctcttttg tgcagctatc tcatctctct tttctagtgt ataatgaagc tcgacaggtt 60

catgtgcatg tgctgctact aatggaggca cttgaatatg gttgccagac ctcaaggtga 120

tggcactcac atttttcgga ttttgcacaa tatgtgaagg caatttgtca aagatttggg 180

actgagcttg attcatctga gtagccatct gtcccatctg gtttgtcaga ctctgaatgg 240

aggctcttgt ctcttgttga aattgcatat tctggatggt catttgcctc actaactct 299

<210> 4893
<211> 463
<212> DNA

<213> Glycine max

<400> 4893

tcttaggtgt tattccttcc aatctctttg aagggctctt attctaaatg aagacagctg 60

tagacactgc ctctccccac aagtacttgg gcagactctt gcctttcaac atgctcctta 120

ccatattcat tatggttctg ttttttcttt ctgcagctcc aatatgttga ggtgtgtagg 180

gaggagtcac ttcatgaatt atgccttctt gatcacaaaa ttcttgaaat tctgtagaaa 240

catattcacc accaccatct gttctcaata tcttgattaa tgagtcactt tgcctttctg 300

ccatattttt gaacttctca aagacttcaa agacatcact cttccttctt attaggtaaa 360

cccatacttt cctagtcaat tcatcaataa aggatatgaa gtatctgttt ccacccagag 420

attcagtttg catagggcca cacacatcag agtaaatcac ctc 463

<210> 4894
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4894

tagtaaagct aagcactaac aatctcccnn cttggcaaat tttgtctaaa acatacttag 60

acacttcctg agcaggtacg agcagttatg caagtgggat cagcaacttt cattatcaga 120

gtaatcaagc acagcggaaa ttctgcaagt tgcaaatcta caagtcttct ccaggatgtc 180

aagacatctc acgtgacatc agctntctgc tcctgctccc cctgtctcca tgcttactgc 240

agcatcttct atcagctact agtcttttcc aggatgtcga gacttctcat gtgacatcag 300

ctntttgctc cccctgtctt catgctctta ctgcagcatc ttttatcagc tagtagctta 360

caccaatcat cagcagcagt ctccccctca aagtcatata catacaactc cccctcanaa 420

tcatgaatca tgcgtacatc gtatcctact gccatacatc 460

<210> 4895
<211> 369
<212> DNA
<213> Glycine max

<400> 4895

agcttcacag tggtagcagc cacgatcctc atcgatccaa tgagccttcg cctactgtgc 60

cgtcgccttc gtgcgccacc gatcagtctg agagctccgc cgccactccg ccgagtcctt 120

cttcggcgtc gacgtcgtcg tcgccgtcca cgctggtggt aactcccagc tgcggcggcg 180

gcggcgcgag tccggtggtg aatcggcagg acttttttctc gtcggaggaa gagtttcagg 240

tgcagctagc cctagctatc agcgcttcca attcggagtt ccgcgaggat cctgagaagg 300

atcatatcca cgcggcgacg ctggtgagct tgggatgcca tcggatcgat tcgacgagga 360

acacggacg 369

<210> 4896
<211> 223
<212> DNA
<213> Glycine max

<400> 4896

agcttccatc aagttatgac tcatttgaat tctcgagatc ttccgtggtt caatttcggg 60

cgtctccata tgtcatgtgc ctgaatcgga ccttcgtaag aaaatttatg accatttgga 120

cctctcttga gcttccgtgg ttaatttcga gcttttctat atctgatgtg cctgaatcgg 180

gcatccgagt gataagttgt gacaatttca atttctacag agc 223

<210> 4897
<211> 301
<212> DNA
<213> Glycine max

<400> 4897

ctcttttgtg cagctatctc atcctctttt tcaagtgtat aatgaagctt gacaggttca 60

ggtgcaggtg ctgctactag tggaggcact tgaatttggt tgccagacct caatgtgatg 120

gcactcacat ttttcggatt ttgcacaatt tgtgaaggca atctgtcaaa attttgggac 180

tgagcttgat tcatctgagt agccatctgt cccatctggt ttgtcagact ctgaatggag 240

gctcttgtct cttgttgaaa ttgcatattc tggatggtca tttgcctcac taactctttc 300

t 301

<210> 4898
<211> 353
<212> DNA
<213> Glycine max

<400> 4898

gggtcttagg gaagaaccta gctagcccaa agtctctaat cttatgctga aacttctcat 60

caagaagaat gttgcttgct ttgatgtctc ggtgaacaat tcttaaatgt gaattctctg 120

ggaggtattg taatccccgt gctacaccaa gaataatttg gaatctagag ctccaatgta 180

gaaattgatc actcttttct gacatcacag aaacatccta ataaggaatt attctcttaa 240

aactactttc agttctttga attactcatg acacattgga catggtgtac attttcacaa 300

gatctactac ttctaggaaa gcacttatct ttacatatga taaacaccat gct 353

<210> 4899
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4899

tatataacat ggccatcatt cacaaactnt gtatacatgc atctattagc atcactacta 60

gaagaaccat caacaagtta agtctcatta aacttttcat gccattgttt aggaacttgt 120

tttaaaccat atagggattt caaaagtttg cacattttgt tctcttgacc atccaccaca 180

caccccttaa gttgagtcat atatatcctc ttcgctatat caccattcaa gatagttgtc 240

ttaacaccca tctgatgaat cactaactta tggattgtag ctaaggctat cataatccta 300

atggaggaaa tccttgtaat atgtgcaaag gtataaaaaa aatctatgtt aggtttctaa 360

gtaaaccctt tagcaatcaa ccttgctatg ttattatcta tagattcatc acgattatac 420

attctcttat agatccattt acattcaata ggattagcac ccttaga 467

<210> 4900
<211> 429
<212> DNA
<213> Glycine max

<400> 4900

gaatctcagc ttccatttca atttcgagcg tctcgatata ttacagggct gtttaggata 60

ttcgagttaa aacttattgt catttcattt tactcagagc ttccgttttc aattacgaac 120

gtcacgatac cgtacgggac tcaatcggat atccgattga aaagttattg tcgttagaat 180

ttactcagag cttctgtttt caatcacgaa cgacttgata ttctacggga cacaatcgga 240

cattcgagtc aaaaattatt ggcgtttgac tattcttaga gcttccgttt tcaattctaa 300

gcgtctcgat atattagaga gctcaatcgg acatctgagt taaaagttat tgtcgttcga 360

cttttcttag aggttccgtt ttgaatttcg acggtctcga tataatacat ggctcaatcg 420

gacatccga 429

<210> 4901
<211> 298
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4901

agctntgaga aaaatcaaac gacaataatt tttaacgctg atgttcgant gagacccgta 60

atatatcgag acgctcctaa ttgaaaaccg acgctctgag cagatttaaa ggacaataaa 120

ttttcactct gatgtccgat tgtgtcccgt aagatatcga gacgctctta attgaaaacg 180

gatgctctta gaaaattcta cgacaataac ttttaactcc gatgtctaat tgagccgcta 240

aatatatcgg gacccctgaa aatgaaactg agctctatga aagttaacga cataactt 298

<210> 4902
<211> 215
<212> DNA
<213> Glycine max

<400> 4902

ccttactact ttcttgatgt acaactccac tagcgttgcc attctatact tcatccgagt 60

gaaatgttat gaccattcga atttttcgag agcttccgtt gtgcaactat gagcgtcatg 120

atataatatg ggctcgaatc gaacattcga gtgaaatggt ttgacaattt cgaattttcg 180

agagacttcg ttgttcaatt tgagcggcta gaaga 215

<210> 4903
<211> 460
<212> DNA
<213> Glycine max

<400> 4903

gctctggact gagcaccaga tcgtcgctgt ggcagaaact acgctgctca ctctcttgaa 60

ttaggcaacg ccgttcccaa ggttccttcc ttctctgatt ctgtctgata agttgttatc 120

ttaattgaag aatctaagct tttgaatttt catgagccgg tgttgtttct gaaaccgacg 180

tcgtcttact tgaaaaacgg cggaaccatc caaattccac acaacgaggg ctctctgcat 240

cacgaggttg agctcgctgt ggtcatcgcc aagaaagcac gtgacgtctc cgaatcctct 300

gcgatggatt atgtcgccgg tattcactat tcatttatct tatgccttat cctgctgtta 360

accgtgaaaa tcgttaatag atttcttaaa gtatttttta tctctaagaa gttaattctc 420

actgctgatt ttatctagag tgagatatta tattcatttt 460

<210> 4904
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4904

ctgagngatg caagctttga caagacagna cacactgttg tcttcttcaa caagattaat 60

tttggaaatc tactctaaag atacgtgtaa ttatacccat aattatacac actccccctc 120

aagctggagc atataaatta tatgcaccaa gcttggaaca tataaactga attctaggcc 180

cccttaagga tttagtcaaa atatctgctg gctgatcatt ggaattaatg aattcagtaa 240

caatctcttt agacagtagc ttctcccgaa taaagtgaca gtcaatctct atgtgcttgg 300

ttctctcatg gaagactgga tttgaagcaa tatgcagagc agtctgatta tcacaataca 360

acttcatttg catcactttg cagaatttca actcttcaag aaattgtttg anccacataa 420

gttcacatgt gactacagcc atagatctat 450

<210> 4905
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4905

tgctggaact acttcatatg gacttgatgt ggtcctatgc aagntgaaag ccttggagga 60

gagaggtatg cctaatttgt tgtggatgat ttttccagat atacctgggt caacttttc 120

atgatagaaa tcagactcct tcgaagtatt caaagagttg agtctataac ttcaaagaga 180

tatagactgc gtcatctaga gaatatggag tgaccattgc tgagagtttg ataactgcaa 240

gtttactgaa ttctgcacat ctgaaagcat cactcatgag ttctctgcag ccattacacc 300

acaacaaaat ggcatagttg aaaggaaaaa catgactttg caaaaanctg ctagggncat 360

gcttcatgc 369

<210> 4906
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4906

agcttgcaac ttttataacc gncgatcaaa tttttaattt aataacaact cttgatttaa 60

tttaatcatg attagccatt gatcaaaaat tacaattaaa aattgtcgtt cattaagtgt 120

taccatattt aacattaatt aaagattaaa ttgatcatat tcatactact tttaatgatt 180

tataatgttt tactctactt attaagaaat atttaaacac acataagtct atttttaaa 240

ttaatgtact ttaaaatata ttttatgagc aataataatt aaaaacaatg attctataat 300

ataaaaataa tacattttat attaacgaac agtaattata gtatgtgtta taaatgaatt 360

acagatacgt aatatattta aacaatcata ataagctacg tatttttaa taactatata 420

tatttttaaa a 431

<210> 4907
<211> 410
<212> DNA
<213> Glycine max

<400> 4907

ttactatgca gagaatatcc aaagagaata cctccatctt tcttagcatc atattttcct 60

aaattatctt ttccattatt caatacaaag catatacaac caaagatatg aatatgtgag 120

atgtttggtt ttctgtcact gaacaaatca tatggagttg tctttaagat ggggcttatt 180

aaagccctta tttaatgatg tagctatgcg agtgttaacg actttaaccc aaaaatatta 240

tggaagacgt gtatcattta ataaagttct agcaatcttt tcaaagatct attatgtctt 300

tcaacaacac cattttgttg aggggatcct ggtgcagaaa agttagctca atcccatgct 360

tatcacacaa taagtcaaat tctatatttc atactcaccc tcatgattac 410

<210> 4908
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4908

ntcagaaagc gtngatgtcg agtgtatact atntttcttg catgttgttc gtagcttgtg 60

tcttcttcat agatagggca tgcatgatgg cccttaacac tgtatccact caaattccca 120

tatgttggaa agtcattaat gatacaaaat atcattgcac acaacttgaa tgtttcattn 180

tgatacggca acccccctcgt cccacaactt tgtcaagtct tcaatcaagg gactgagatg 240

aacatcaatg tcatttcttg gttgtcttgg gcccgatatc atcatacaca acatcatgta 300

ttttcgcttc atgcacaact aaggaggcaa gctatacatt actagcaaaa taggccacga 360

actgtgttga gtgcttaaac tgccatacag atccattcca tcactggcaa gtccaagcct 420

aggatntctt gcctcttttt cgaattctgg atacaaacta 460

<210> 4909
<211> 420
<212> DNA
<213> Glycine max

<400> 4909

tacgtctcta aataagtcga ttctgagtgg aaaccttatc tccggagtga tcccggagac 60

gctggggctg tgtaaggctt tgcagttgct ggatataagt aacaatagga tcactggttc 120

tattcctgat gagatcggtt atttgcaaga attagatatc ctcttgaact tgagttggaa 180

ttctcttact ggccccattc cagagacctt ctcaaatctc tcaaaactat ccatcttgga 240

tctctctcac aacaagctca caggtacact cacagttctg gttagtcttg acaatctagt 300

gtctctaaat gtctcctaca atagcttttc tggttctctt cctgatacaa aggtcttccg 360

ggatctaccc actgctgtcg ttgctggtaa ccctgtacct tgcattagca tgtgtcatgc 420

<210> 4910
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4910

tatatcnncc cttttaatga ttataaagca aattccaact tatgcaatgc atgaaaaaca 60

aaatgaaagg aatcagaact gggttgcctc ccaggaagcg ctcttttaac gtcattagct 120

tgatgcatat acctcaatag gtgatattaa atttggccct cactttcagg acctccctta 180

cctgtaagca aacattttgt tctggcacag gcttgtcttc tacaaataaa tcaaaatcaa 240

ttctttgatc ttcaaaaccc atttctagtt tctttcttcc caagattaag ggaatgtcat 300

tatcttcaca gatatccatt acaacaaagt ctgttgggaa gataaaatgt tttactctga 360

cctaaacatc ttcaattact ccgtatggtc tggtaatgga gcggtcaacc aactgtagag 420

tcattctagt gggcatgat 439

<210> 4911
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4911

agcttaaagg aagtgaacga attagcatgg ttataattgt ctccacattg attggtaaat 60

ctgctcccca aattcctgaa aaatgtaaag atccaggtac attcagcata ccttgtatta 120

tagggaatag taagtttgac aatgccatgc tagatttagg agcttctgtt agtgttatgc 180

ctctgtctat atttaattct ctatctctag gtcccttgca gtcaactgat gtggtaattc 240

atttagctaa tagaagtgtt gcctaccctg ttggtttcat agaagatgtc ttagttagag 300

ttggtgaact ggattttcct ggtgattntt atatattgaa tatggaa 347

<210> 4912
<211> 471
<212> DNA
<213> Glycine max

<400> 4912

atacaatact caagcttatg agataggact accattcatt aaaaagcctg gcccataaca 60

caagaatgac ttcatagagt ctcaagcttt accagtcctt gataaactcc tagaagatgt 120

aagcatgcat ctctacagca ctattgtccc tatcacgttt catatcagat gcgtgagtgt 180

gcatcttaat tagcaataga aataggtagg tttgttagta aaatacctgt ctacacatta 240

aattaacgca atgtggggag gaactgtttc cttgcctgaa aaggcatttt cggaatcgaa 300

acgagaatgg agacgattat cacttgtttc aacaaagcca tttcaaatga ttggcgtgtc 360

gaaattgctc ttgtttcaat atgtgacaga gtcattatct gcagacgtct tcgctgaaat 420

gatatgacca atatatttaa gccactccag aacataatta aaatacattt t 471

<210> 4913
<211> 406
<212> DNA
<213> Glycine max

<400> 4913

agcttcaaag gcttagacaa gggactatga gtgttgttta atatagacaa aaaatggaat 60

tactcctttt aagagctgga cttagggagg aggaaagaac aagcatagct aggttcctta 120

gtgggcttaa tatggaagtg agggacaagg ttgaactcct tccatatagg gacctagatg 180

agctagtcca actttgtata agagtggagc aacaacttaa aagaaagcct tcttcaaaat 240

cttatggctc tcactcttat ccaaggaagg accaagccta tggaatttta ggggctgcac 300

cttcaaaacc caaggaagaa tagggtaaga ccatagagaa atacacccct aagactagtt 360

cccaagaaag gactaacaac attaaatgct ttaaatgtct tgggag 406

<210> 4914
<211> 465
<212> DNA
<213> Glycine max

<400> 4914

taagcaaaag tttcatttaa actactcttc caaaactttt atataaaagt aaataaatga 60

tattgtctat tgtacttaaa tataaataaa tttaattaat tttatgccat ttaatgttat 120

cattcctaaa atattattct ttcgtctaat tctttttcta tcttgaatga ctctcttatt 180

tatgataata agtttcaaat gaaagatatt ttaaaagaaa agaaaattat tatttttact 240

ttttcacgta agattaaatg atggtaggag atgtggagtg gacttgagaa tagatatgtt 300

ttgcttacct tcataggcta gtttttttcta aaagataatt tattctttgg tacagagact 360

cctttgtcat gtatatgata gcattactta aaagtaatgc atgtattatc tcatggaatt 420

caagataatg atatatgata gtttattcat tctttgatat catac 465

<210> 4915
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4915

agcttcatct ggaaaagtat catagatatt gttctccttg gaagtgactt tttcattcac 60

aagtctagat aggtggttag ccactaaatt ntcacttccc ttcttatcct ttatttcttg 120

atcaaattcc tacaacataa gtatccacct aataagtatt tgtttggaat taggcttagt 180

taagaggtac ttaatgttag acaagtggcc tcagatatct taagaagggg gggttgaatt 240

aagatattcc aaacttttct cctaattaaa aatctatctt actttntact taagttatga 300

attcccttaa tgacaatctt cttacatatt aattcatatg aagcaacttg aattatgaat 360

attaagcatt aatatata 378

<210> 4916
<211> 325
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4916

agcttcattc actaatcctt ccttacacaa tgtttctata attctactat acataaccac 60

attgngttta acattaaaaa cacaatgttg tatcatcctc aacaatctaa cagcgacttt 120

tgttnttcct gcatcacaga gtccgttaat taaagtcccg taggtgattt cgttgaattc 180

gaatccatcc gcgagcattt cgtcgtgaaa tttgagcgcg gtggaaacgg cgccgttgag 240

gcagatgccg ttgatgaggg tgttgaccgt gacgacgtcg tacgggagac cgcgctngag 300

aagcttcccg aagacggaga atgcg 325

<210> 4917
<211> 305
<212> DNA
<213> Glycine max

<400> 4917

agcttgcaaa ctaggtactt atttgcaacc tgaaagctag gaggacgctg tgtcataaat 60

actgactcct caagaaaccc atttagaaaa gcattgttca catcaaactg aaataactct 120

cacccatgtg aaagagcaag agtgagaaca atacgaattg tgacaggctt gaccacagga 180

gaaaatgtct catgaaagtc aaaaccccat gatgaaaacc cttagctacc aaccttgctt 240

taaacttgtt gatggaacca tcaacatttt cttttactct aaaaacccac ttacactcaa 300

tggca 305

<210> 4918
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4918

acggaccttg aaactaagct taaggaagtg aaagaattag tatgggcaga aatgtctcct 60

tattgattgg taaatctgtt ccccaaatcc ctgaaaaatg taaagatcca ggtacattct 120

ccatacctag tattataggg aacaataagt ttgacaatgc catgctagaa ttaggagctt 180

ctgttagtgt tatgcctctg tctattttta attctctatc tcttggccct ttgcagtcaa 240

ctgatgttgg aattcattta gctaatagaa gtgttgctta tcctgctagt ttcatagagg 300

atgtcttagt tagagttggt gaactgattt ttcccgttga ttnttatatt atgaatatgg 360

aggagggatt ttcttaagga tcagttccca tcattctagg cagaccttta tgaaaactgc 420

tagaacttag atagatgtat atgtaggcac actatctatg gagttttgtg atat 474

<210> 4919
<211> 350
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4919

agcttatcat tctctacgtn ganttattag ttaactgtct tncgcctctc acattcttgg 60

ttcttacttc cctctaaatt tggcttagag ctttgctcat actcattgct tcttattttc 120

ctttccgaac aagaaattcc taataccaac aacacaaatt ttatgagttg gaaaccttga 180

ttttttgtta gcatgtctcc aacaaaaaac aattagaaaa gaattgcatt ttagacctta 240

gaaagcatta tcctcgctcc aacatgcttg ttatcccatc caaaggtatt gtcagaatct 300

gcagccccca gtgtctgtcc attaatctta atgtagttta ggtacattgg 350

<210> 4920
<211> 587
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4920

agctttgaat gcactattta atggagttga ctagaacatc ttcagactga tcaacacttg 60

cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120

gaagatttcc agattgcaac tcttggctac aaaattcgaa aatctgaaga tgaaggagga 180

agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgcct gcactgcctt 240

gggagagagg ataacagatg aaaagctggt gagaaagatc ctcagatcct tgcctaagag 300

atttgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360

tgaactcatt ggttctcttc aaacctttga gctaagactc tcggataggg ctgaaaagaa 420

gagcaagaat ccggctttcg tgttcaatga tgaaggagaa aaaaatgaag ttgacctgga 480

tactgatgaa ggtctgacaa atgcaggtgt gcttctttgg nagcaggtca acaaagtgct 540

aaacagaatg gacaagaggc agaaaccaca tgtccagaac atcccttt 587

<210> 4921
<211> 534
<212> DNA
<213> Glycine max

<400> 4921

agctttgagc caattcaaac gacaataact ttttactccg atgtctgatt gagtcccttc 60

atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120

tttttactcg gatgtctgat tgagtcccgt aatatatcga gacgctctaa attgaatgtt 180

gaacctctga gctaattcaa acgacactaa ctttatactc ggatgtctga ttgagtgccg 240

taacatatcg agacgctcga aattgaatgt tgaacctcta agccaattaa aacaacaata 300

acgttttact cggatgtctg attgagtccc gtcatatatc gagacgctcg aaattgaatg 360

ttgaagctct gagccaattc aaacgacaat aacttttac tcggatgtct gattgagtcc 420

cataatatat cgagacgctc gaaatgaatg ttgaagctct gagccaattc aaacgacaat 480

aacttttac tcggatgtct gattgagtcc ccgtatatat cgagaccctc gaaa 534

<210> 4922
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4922

agcttgcagc aaatgcaaac cacaagaact tttaactcca atatccgatt gagtcccgta 60

atatatcgag acgctcgaaa ttgaaaacag aagctctgag caaattaaaa caacaattac 120

tttttactcg gatgtccgaa tgaatccagt aatatatcga gaactagaaa ttgaaaacag 180

aagctcgtta caattgcaaa ccacaattag ttntaactcg gatgtccgaa taagtctcgt 240

aatatatcga gacgcttgaa attgaaaaca gaagctttga gcaaattcaa atgacaatta 300

ctttttactc ggatgttcga atgaatcccg taatata 337

<210> 4923
<211> 311
<212> DNA
<213> Glycine max

<400> 4923

agcttgcaaa ccaaatgctc atcactgcta gaggagaagc cttcaagttg tttcatataa 60

atctcctcct ctaaatcacc attaagaaag attgttttca catccatttg tttcaactga 120

aggtcaaaat gagaaactaa tgcccacata atacaaagag aatattactt atatacaaga 180

gaaaaagtct taatgaaatc gattccttct ttggagtaaa tcccttagca acgagtcttg 240

ccttgtatct ctcaatgatg cctaatgaat ccttttttggt cttaaagacc catttaatac 300

caatatactt t 311

<210> 4924
<211> 539
<212> DNA
<213> Glycine max

<400> 4924

agcttgagga tgtgctcgag gtttttgggg tctcacgtga cagtcaccag gcactgtttt 60

cgggcgagga aggggagggc gcatatgcag gtctggtacg tgccgccgca cgcgcggagg 120

ttgtcagcga tccagtcgtg catgcggttg gcgtgttgga tgaggccagg gaggctgccc 180

aataggggcc agacacgtgg acctttgagg gagcgagtga ccaaggtgaa ccatattaaa 240

taggccgcta ttgctgatag gatcattaaa gccgttgctg cgtccatgtg agtgctgggc 300

ccaactccca aaacaaaaaa ttaaaccttt attgcttgca ccttccctca ccggaggagc 360

tagaggctgc tattaccatc accacgcaaa ttcaattgga tccattgcag cttaaatgag 420

gaaagtaaac cctagctgtg tagtattcaa gtgggggcta aaacgggagt gatagatgaa 480

attattgtgt tcaactaaaa aatgtgcaag tggttttgat tggtgaataa ttgagatct 539

<210> 4925
<211> 537
<212> DNA
<213> Glycine max

<400> 4925

agcttgtgca tccaataccc tgatgaggat gtcccatatg ttcttaaaac tgggctgatt 60

catttgcttc caaagtttca tggccttgca ggtgaagacc cgcataaaca tttgaaagaa 120

tttcacattg tctgctccac catgaaaccc ccagatgtct aagaggatca catatttctg 180

aaggcttttc ctcattcatt agagggagtg gcaaaggact ggctgtatta ccttgctcca 240

aggtccatca cgagctggga tgaccttaag agagtatttt tagaaaaatt tttccctgct 300

tccaggacca caaccatcaa gaaagatatc taaggtatta gacaactcag tggagagagc 360

ctgtatgagt acttggagcg atttaagaaa ctatgtgcca gttgccctca ccatcagatt 420

tcggagcaac ttcttctcca atatttttat gaaggactcc agtatatgga gagaagtatg 480

atagatgctg ccagtggtgg agccccttga gacatgactc ctgtgaagcc aggaatt 537

<210> 4926
<211> 543
<212> DNA
<213> Glycine max

<400> 4926

agcttgttta tcccatgttg aatttgcttc tttagagctg ttcatagcac cactaattgt 60

tctccttttg aagttgttta tggttttaac ccactaactc ttcttgatct tttgcctatg 120

cctaatgttt ctgtttttaa gcataaagaa ggtcaagcaa aggtggacta tgtgaagaag 180

cttcatgaga gggtcaaaga tcaaattgag aggaaaaata aaagctatgc ttaacaagcc 240

aacaaaggga gaaagaaggt tgtcttctaa cccggagatt gggtttgggt gcacatgaga 300

aaagaaaggt ttccggaaca aaggaaatca aagcttcaac caaagggaga tggaccattt 360

caagtgcttg aaagaataat gacaatgcta tcaagttgag ctacccagtg agtataatgt 420

tagtttcacc ttcaatgtct ctgacttatc tctttatgat gcagatggag aattccgatt 480

tgaggataaa tccttctcaa gagggagaga atgatgagga catgaccaag agcaagggcc 540

aag 543

<210> 4927
<211> 409
<212> DNA
<213> Glycine max

<400> 4927

agcttctcga tatattattc gcctgaatct tacatctgag tgaaatttat gaccatttga 60

atttctcgag agcaattgtt gcccaatttc gtgcgtctgg atatattatt cccctgaatc 120

ggacatctga gtgaaaagtt atgaccattt gaatttctcg agagcttccg tttttcaatt 180

tcgagcatct agatatatta tttcccggaa tctgacatcc gtgtgaaaag ttatgaccat 240

ttaaatttct tgagagcttc cattgttcaa tgtcaagcgt cctgatatgt tatgcgccta 300

aatcggacat ccgagtgaaa agtcaggaca atttgaattt ctagagagct tttgttgttt 360

aatttcgacc gtgtcgatat attatgggcc ggaatcgaat acctgagta 409

<210> 4928
<211> 488
<212> DNA
<213> Glycine max

<400> 4928

agcttgtctt gacatattag aagtttatac tcatgataaa aacattctga agaattgctt 60

atgattaata gcatgttttc gttatatttc ttttaataaa aagagatttt aagtgaatta 120

gtaattagtg aggatagaag taaaaagaaa aaaagaaaaa ggaaaaaagc cagtaatatg 180

taagttataa gctagttgaa gtaataagcc aaaaattaca taaataaaat agcataatgt 240

atatctaata aatttatttt gattaaaata actagtcaaa ctaacttata ctagagtgtt 300

gtgttaaaca caattggaaa aaattgttga cggtaattat tatttaaata cgtttatgat 360

ttatattatt atcaaaaatt ataatcttaa tagaaggaaa aaaaaaacac cttaatggtt 420

ctaaagctat tgaaagcaaa gaaaatattg atgaaaaaaa aaagaagtga agttgaccgg 480

ttcaaaca 488

<210> 4929
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4929

agacctcctc aacctcagca gcaaaatcaa ccacagcaga gcaattatga cctctccagc 60

aacagataca atcctagatg gaggaatcac cctaacctca gatggtccag ccctcagcaa 120

caacaacagc agcctgctcc ttccttccaa aatgctgctg gcccaagcag accatacatt 180

cctccaccaa tccaacaaca gcaacaaccc cagaaacaac caacagttga ggcccctcca 240

caaccttccc tcgaagaact tgtgaggcaa atgactatgc ttaacattca gtttcnnnnn 300

gaaatcagag ccttcattca gagcttaacc aatcagatgg gacaattgga tacccaattg 360

aatcaacaac agtcccagaa ttctga 386

<210> 4930
<211> 510
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4930

agcttcgtga agaggttttg aatgaccggg atttgatttg aatcaagggg gctttgcatt 60

ccaacccagc agccatgtct gattatactt tgagagatgg tttaatgttt ttcaagggca 120

gacttatatt gtctaagagc tccaacttga ttcctacttt gttgattgaa taggaggaca 180

ctccagattt accaagacta acaaacggat ggcagcaacc ttctattgga aaggtatgaa 240

aaagacaata atggaatata tccttcgttg tgatgtgtgc cagtggcata agtatcaggc 300

catgtcacca accgatctgc tgcaatccat tcccatccta gaggtggttt ggacagatat 360

ctctatggat tttattacag gattgcccct tttacagcca aaacagttgc agaaaagttc 420

atcagagatg tggccaaact gcacgtgtnt cccaaattct attattgatc gagaaccccc 480

tctttctgag taaattttgg ggaaactttt 510

<210> 4931
<211> 605
<212> DNA
<213> Glycine max

<400> 4931

agcttggcca taagaatcaa agatgtcttt tataacgaca cggtctctat attatctacc 60

ttgtaaaata gaaaacaaaa ggtgtgtgag gatatgagtt cctttacaca tctttactct 120

atgaatgtca catttcattt catgatattt taaaagtgta gaaagataat gagtcatcct 180

acctaagttc tctcctgaga aaaatttgtc caattgagta tccattaata atcatagcat 240

attggacaat ctgaagacat atattaatcc aactaagtca tttttcatga aagcccattt 300

ttttattact accaaatagc cccaattaac tctatcaaaa gctttgctaa tgtcaatttc 360

aaagtaactt gcccaatttt tcctttgtac ttacacctca tgtgatgaat aatttcataa 420

gctaaaagaa cattgtaaag aatggatcga tcctctacaa aacattattg ctcttcataa 480

ttatgcaatt tggaaagaga agttaaagac acttggctaa aactttggac acatgatttt 540

tgttaggaca ttgcacggag agattgacca aagtctttta tacaaacagg gtttttaatt 600

ttgga 605

<210> 4932
<211> 512
<212> DNA
<213> Glycine max

<400> 4932

agctttgaga atatggttgc agccattggt caatatgggc cacatttgcc cattcctagc 60

tatcatgaca tcagagttcc actcttgaag aaggaagttg aatatactga aaatttgatg 120

aaaggccata aggagcaatg ggtcaagtat ggatgtacta ttatgtccga tgcatggact 180

gatcggaaac aaagatgcat cattaatttt ttgattaact ctcaagctgg tacgatgttt 240

ttgaagactg ttgatggctc tgattttgta aagacaggtg aaaagctttt tgagttgctt 300

gatgccattg tggaggaagt tggagaagag aatgttgttc aagttgtaac cgataatggg 360

agcaactatg ttttatcggg taagttgttg gacgagaaaa ggaaacatat ttattggact 420

ccttgagcag ctcattgtat tgatttgatg cttgaagata ttgggaagct tcccttgatg 480

aggaagacaa ttagaacgaa ttaatctagt tg 512

<210> 4933
<211> 574
<212> DNA
<213> Glycine max

<400> 4933

agcttttctt tgagcaaagc aaaggcttga tcttgtttat cacccaaggt aaatgccaca 60

ttcttcttca ccagctcatt gagaggtgat gcaattgtag agaaattagg aatgaacctt 120

ctatagaagc ttgctaaccc atggaagctc ttaatatctc ccacactttt cgggatgggc 180

cattcttgga tggccttgat tttctcaggg tccacttgaa ccccatttct accaactaca 240

aaccctaaga aaactatatt atctacacaa aaagtacact tctctatatt tgaatagagg 300

gtatttttcc taaggactga aagaacttgc ctgagatgtc ctaagtgatc atctaggctc 360

ctactataca ctaaaatatc atcaaaataa acaactacaa atctacctat gaaatccctt 420

aagacatgat gcataagcct tgtcgcaacc taaccttcgg cgggagggca acgcgtgact 480

cgcggatgcg tgttccaaga aaggaatacg tgcggagtcg ccaccaacgt ttattcgagg 540

agaacgttcg gaaaacccga aaagacgtga tcta 574

<210> 4934
<211> 644
<212> DNA
<213> Glycine max

<400> 4934

actaaacttt gacatattaa atgcggtcaa tttttccccc acatttcaaa tttatgttct 60

acgagtataa aaatatatct acccaaatga agctcatttt atattaataa tattattttt 120

ttaaccaaaa attaaaatta ttatcattaa ttattaaatc ttaattttga atttcaagta 180

aggattaggt ttgctttatt aattaaaata ttatttttg agattataat agttcaacat 240

tatgattaat taattaaatc tttttgtatc ccgtagtttg atgtattttc tttatacatt 300

tgacatttta aataagtcat tcatccttat ttgaaataca cactaatagc attaatttca 360

ataactgaaa ttaatctaac agcccaaccg atgaattaat atggaaacaa tattttaaaa 420

ttttacttta aactaattta ttcactaaaa tatatgtata atttattctt acttactgcc 480

caattcaaat tgaacaactt acacaaatgt taagaaaaat gttaaatcca aaagtcattg 540

acttccaatc aactattgtt tttaacaata gaataaaatg actctaaata tttttgaaaa 600

cctcggaaaa tatcaaattt tatctatgaa cccctataaa aaaa 644

<210> 4935
<211> 493
<212> DNA
<213> Glycine max

<400> 4935

agcttgataa tcatatcagg ctttcattct gaaatgaaag atttggcaca tttactcact 60

ccactccaaa aacctattga ggcaccatgc attatcattg cctcctcaat gaccctagca 120

aagatatgtg caagaggaag gtatgatagg tatacatctt tttcattcaa ctgcaagcag 180

gaaaaaggag ggtaagtcaa agagaggata gcaaaatatt cattatccta aaactgaaaa 240

catttctaga gactagagct ctcaaaatac caacactagc ttacttttc attacaactc 300

ttcagcaatt gctgaatccc agctaagagt gtaataatgc tttcgttggt tatcaacact 360

cccttgggat cacctgtagt tccactcgta tacattattg tacacacatc acttttcttt 420

ttaacaggaa gatcaaaact ctgattatga ccctgctcta gacataaaaa actggaatga 480

gtattgagaa atg 493

<210> 4936
<211> 337
<212> DNA
<213> Glycine max

<400> 4936

agcttctaga gctttctttg ctgcatcaat gacatagaat gcatgcaaag aaacatttgg 60

tggcccgtct ttttctgctt tgttgtttcc ttttgaattt agcagcacag aggcatcaca 120

ccccttcaag agtataggaa aaaagaaaac aatatgattt gatttcatga tgcatcaaat 180

gaggcggaag cagtcaagag gaaaggaggg aggaggggtc aaaatagcat tacccgaacg 240

aaacaatcat ggaagtgcat tcgcagaatt gctgctggaa cagttttgtc cctagcagtg 300

gcatccttta ctgccttggc aacaatgaac tccacat 337

<210> 4937
<211> 412
<212> DNA
<213> Glycine max

<400> 4937

agcttgtaaa catgattagg atgttaaaag tctacaaaac ttgaagactg gtctacatgt 60

atctcttctt caatgtatcc attgagaaaa gcactcttca gatccatttg gtataacttg 120

atatccataa tccatgcaaa tgcaagtagc aatctaatgg cttccaacct tgcaataggg 180

acataggttt catcatagtc aatgccttcc tcttggttgt atccttttgc aaacaatcta 240

gtcttgttcc ttaatatgat gcgtgattcg tcagggttat ttcgaaacac tcatttggtt 300

ttgattgact tatgagaggc aggtttagtt ccacacttca tccgtttaaa ctgattagtt 360

cttcatgcat agccagcaac caatgctcat cgtacaaagc ttcatctatg tt 412

<210> 4938
<211> 597
<212> DNA
<213> Glycine max

<400> 4938

agcttcatct ggaaaagtat catagatatc gtgctccttg gaagtgactt tttcattcac 60

aagtctagat aggtggttag ccactaaatt ttcacttccc ttcttatcct ttatttcttg 120

atcaaattcc tacaacataa gtatccacct aataagtatt tgtttggaat taggcttagt 180

taagaggtac ttaatgttag acaagtggcc tcagatatct taagaagggg gggttgaatt 240

aagatattcc aaacttttct cctaattaaa aatctatctt acttttttact taagttatga 300

attcccttaa tgacaatctt cttaaatatt aattcaaatg aagcaacttg aattatgaat 360

ataaagcaat aataaataaa ggagattaag ggaagagaaa atgcaaactc agttttatac 420

tggttcggcc acacccttgt gcctacgtcc agtccccaag caacccgctt gagagttcca 480

ctaacttgta aattcctttt acaagttcta aacacacaaa gacaacccct tccttttgtg 540

tttagagatt ctttacaaca agagactcac agtctcttaa tcccttagag aatgaga 597

<210> 4939
<211> 533
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4939

agcttgcaag aggattggta gaggggatct catccaaggc ttttatgtct tagacctcag 60

ggacactctt gattgtaaat ttacttttt tgttatcaat tcacatacaa cttccattcc 120

ttgtaaaaat gctcatattt ggcattctag atttggtcat atctcagaca aagttttcaa 180

acatttgaat aataaaattg gtctacacct ttctcccaat ttctcttctt ctaattgttt 240

tgtttgccct cttgctaaat ttagaagatt atattttcct aactctaacc atttattaga 300

attatcattt gacttaattc gctgtgatat atagggtccc tatgctcacc ctacctatga 360

gggaaagaga attttcctta cattggttga tgactactca agattcactt gactatttct 420

gcttaagcac aaatctgaag ctttaatcta tgtgcaacaa tttttcacca tggttcagac 480

tcagtttggt gtatctatca natgccttcg gtctgataat gctaaggaac ttg 533

<210> 4940
<211> 552
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4940

agcttatcaa atatgctttc aggtgataaa cttttatcaa ttaagtaatt aattaagttg 60

tttatccaaa cgcacccttt gcataaaaac ttttactact ctctagctga tataagtgaa 120

tgtttattgc aggctgtggt aaaaaggttg atgactgatg ttccctttgg tgttttgctc 180

tctggaggtt tggactcttc attggttgca gccgtcacgg ctcgctacct ggcaggcaca 240

aatgctgcca agcaatgggg aaccaaatta cactctttct gtgtaggcct tgaggtatgt 300

aagcgtacat attcttgaat tagcagtgga tgtttttaat ataagaagga agccatgaaa 360

tttgtcttaa tctttaatca tcttatgttg agtagggtgc acctgaccta aaggcagcaa 420

aggaagtagc agactacata ggtactgtac atcatgaant tcactacact gttcaggtat 480

atctaaatga gatagtgttg ttactgctaa gaaattcggg gggtttgatg cctaaaatta 540

taatttgtaa at 552

<210> 4941
<211> 559
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4941

agctttcaaa ttactatacg agtaattttc aacttaaaat aatattgagt attttatttt 60

tattaacagg aataaactaa acgtaatgtt tgaaattgaa aaaatataaa gtttgatgaa 120

gagatattat gttcaattga tgtgatgtgt caaaaattaa tattaaaaaa actataaatt 180

taatttaaga ttaacttata ttataataat tttactttca cttcatctag aaaaagaaat 240

actttcaata tattaagatt cacattttaa aatttaaaga aaaattaaaa tgattgatta 300

agaaataata attataaata aaaaataaaa atgaaatacc caatgcaata aaagtcacaa 360

acttaatatg gaagaaaaag attgggctaa ttattggaca gaggaatcaa agtacgcatc 420

agactcaact cccagagtgt tatgaagagt ttttctttta tcgataaata ttacgatatt 480

agtttaattt ggttggtttt attaataaag aatcttnggt ccatcactta atttttata 540

attctaaatt ttttatatg 559

<210> 4942
<211> 556
<212> DNA
<213> Glycine max

<400> 4942

agcttctatt gctcttattc atctttactt gggctatctc agacctttta tttttgttgt 60

ctaagatttt gcatacacct ccttcaaagt gaagtgtgta gcctctctcc atcatttggc 120

caatgcttag aagattttct tttaggctgg gaactagtaa gacatcatgg atgagtcgcg 180

tacctttatt tgtctccacc atgacagtgc ctttgccttt tgattcaacc acacttctat 240

ttcccagtcg acctttgact ttgacagact catcaataca tttgaaaata gtctcatcct 300

tggccatgtg attgctacat ccactatcca agtaccagct tcctcccttt tcttttattg 360

agtcttgagt ggcgtagaat gtacattgtt cttgatcatg ctcctttgtg atatgcttga 420

tgcctatttt tgttgcgaca atttttctct acgtgcccga acttctttgc atggttgcat 480

tgtggcatat tacagaacca acaatttttc tctacgtggc ctttgccttt tgcatatatt 540

gcatggagga ttttta 556

<210> 4943
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4943

tctaaactnt atacaagact gaagctctga tatcacttgt tggacaagtg gcctcagata 60

tcttaagaag gggggttgaa ttaagatatc acagactatt ccccaattaa aaaaattcta 120

cttttaattt aacccaacaa cccaagattt cttttaaaca agaactccta gataattatg 180

caaattaatc ttactaaata gaaataataa ccaataaagg agtttaaggg aagagaaaat 240

gcaaactcag atttatactg gttcggccac acccttgtgc ctacgtccac tccccaagca 300

acccgcttga gagttccact atcgtgtaaa atccctttac aagttttgaa ccacacaagg 360

acaacccttc ctttgtttca gatttcttta caacaagaga ccctcggtct cttaatccct 420

tttgagaaat agaaagaaga gaagac 446

<210> 4944
<211> 393
<212> DNA
<213> Glycine max

<400> 4944

actggatgca ttggttaact tggtaaccca gctggccttg aaccaaaaat ctgtacctgt 60

cgcaagggtc tgcggtttgt gctcctctgc tgaccaccat acagaccttt gcccttccat 120

gcagcaacct ggagcaattg agcagcccga agcttatgtt gcaaatattt tcaatagacc 180

tcctcaacct cagcagcaaa atcaaccaca gcagaacaat tatgacctct ccagcaacag 240

atacaaccct ggatggagga atcaccctaa tctcagatgg tctagccctc agcaacaaca 300

acaacagcct gctccttcat tccaaaatgt tgctggccca agcagaccat acattcctcc 360

accaatccaa caacagcaac agccccagaa ata 393

<210> 4945
<211> 400
<212> DNA
<213> Glycine max

<400> 4945

agcttcctta agaagattcc taaagaagat tgagcttagc tacacataca tctctaatag 60

ctaagctcac ctccttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120

aagctcaccc ccatgacaaa aaacatgaaa atacaaaaaa aagtccttac tacaaaaact 180

actcaaaatg ccccgaaata caaagctaaa accctatact attagaatgg ccaaaatata 240

aggcccagac gaaggaaata cctattctaa tatttacaaa gataagcggg ctcatactta 300

gctcatgggc tcgaaatcta ccctaaggct catgagaacc ctagggcctt cccttggatc 360

tctagcccaa tctacttgga gtcttctacc caatgccctt 400

<210> 4946
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4946

tcatgcttaa ctatgtatgg caaaacttca ttactgttgt tcaagacata caagtgagct 60

tgtaacaaat cttctacact tggagtgatc acatgcaatc ctcttgaacc cttaccaccc 120

actctgtcat catgccgaga ctcaagaagg ccaacaggtt tagccttctc taagtattat 180

gaacaaaatt caatggcttc ttctgcaatg tacctctcaa caatagatgc ttctagatga 240

tatagattct ttgtatacct ttttaagatc ttcatgtatc gctcaaccgg gtacatccac 300

cgtagataaa caggaccacg acatttgatt tctctgacca gatgcacaat caagtgaatc 360

atgatgtcaa agaaagcagg aggaaaatac atctncaact ggcacagtat aattgcggcc 420

tcattttcca actcataana catgactgga tc 452

<210> 4947
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4947

ntgcctgact ccttcatttc ctatgaccca ttcttctatc tatgtccctt tctttntaca 60

tttaattgtt catctttcta tagctcttta tttattttct tgctttattg aaatcatttt 120

caaaaatact tagtcgaata tatctcataa aaaattacat attttatatt caaatctgta 180

ttttcatgaa aaggtgccaa gaattgttat atttcttcaa atctagctgt tattggaaat 240

caacttttag tacattgtct tttcaataaa gattactaca aaatttgaat aacttgattt 300

tttgctgatt tgaataaaaa taatttgctg atttgaataa aaataattca catctttgaa 360

tcttgcgatt ctaaatctta agaactcaag aatac 395

<210> 4948
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4948

nttcgttcac tttgcatgag ntttgccacc atatgttccc atttccatgg atggtaccac 60

caccttaac tgatagtttc tcaacactgt cgaaagtaag ccagtgagtg agatcttcgc 120

tgtaatctga taggttttct gatgcttcaa tggttccaga aatctgaaaa acaaaacaat 180

gaaaaatcat cccaaattca tatatacaga tatcgaacaa ttgaagatct cttcaatgtt 240

tataattcaa tttttaaaaa tatttgaact agcaaattta atttgttcca aactataacc 300

tgcacttcga tgttggatct gcaagggcca gacaatctga atggcttgag ta 352

<210> 4949
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4949

agctggtcac gaagntgctg catttctccc tataagaatg caacntttta ataagcggaa 60

agcgaagcca aatgtgggaa attaatataa aagaagaaat ataagcaaaa agagtcatgg 120

aagtcaagaa ctcaaccact aaattcagat gaattggcag agtaaagcaa aaaaatatta 180

cctgcaagaa tcgacgttct tcaagccact gtttgacagg catcacttta tcattagcat 240

ctttccattc atttgcaacc acaacagcta ctctggttgc tgttaccttg gcacgagcca 300

actccctgtc tagagtctnt ctttcctcct aaagaatgtc aaataaaccg cgcaaaaata 360

aatatgatct taactagagg cagtacaatc aagaataaag caaatgtgag tttgaacatg 420

ctgaagactt ttcacacaat acat 444

<210> 4950
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4950

tgtgcctcct cacgtctgga atatgaatgt agcttatatt attcaaagac ccttaggtgc 60

tttgttgatg gcttcttctc gttccaagct tcaattggag tcttgtcttt tacagactta 120

gttggacatc tgttgagtat gtaaacaaca ttgtagactg cttcagccca aaatgtgtta 180

ggtagtccct tctccttgag cattcatcta gccatttcca taactgtgcg attctttctc 240

tcggacactt cattttgttg aggagaatat gcgactgtaa gttgtcgctc aatgccttca 300

tcctcacaaa atctttcaaa ctcacgagag atgtactctt tgtcgngatc acttcttagt 360

acttttattc gttttccact ttgatttcaa caagggcctt gaacttttg aatactccag 420

agacttctga ttnttctttt aanaaatata cc 452

<210> 4951
<211> 417
<212> DNA
<213> Glycine max

<400> 4951

agctctcata aattcacgaa actattccaa atgctctgct tctccatggc taccgcacca 60

aaagaaacct cagctcctgg atcaccctct gtaccatcat ccaccatagc accatcaaac 120

caggaacaac ctgaattcca tatccaaccc atacaaatga ttcctggtca agctcctgtc 180

cttgagaaac tggttcccaa acgacaacag ggagtgaaga cttctgaaaa ccctagcctt 240

gcaacaagtc ctatggaagt agacacggag atggacaaga aaatccgcag tattgtgagt 300

aacattctga aaaaagcttc tgtccctgat gctgatgaag atgttccaac atctttcacc 360

ccgaatgttt ctgtgcctga tgctgagaaa gaatgttcaa catcttccac tccaaat 417

<210> 4952
<211> 363
<212> DNA
<213> Glycine max

<400> 4952

agcttgtagg gttaatgtct cacgattatc acatgcttat gcaacaattg ttagtcgtgg 60

ctatacgaga catcttgcca tacaaagtca ggttaacgat aactcgcctg tgatttttct 120

tccatgctat atgtagcaaa gtcattgatc cagtcatgtt tgatgagttg gaaaataagg 180

ccacaattat actgtgccaa ttggagatgt attttccccc tgctttcttt gacatcatga 240

ttcacttgat tgtgcatctg gtcagagaaa tcaaatgttg cggtcctgtt tatctacggc 300

gaatgtaccc gattgagcga tacatgaaga tcttaagagg gtatacacag aatctatatc 360

atc 363

<210> 4953
<211> 369
<212> DNA
<213> Glycine max

<400> 4953

agcttcttgg ggttgtttgg ctattataga tagttcattg aaggattttc taaattggca 60

ttgcccctaa ctaagttgac tcgtaagaat gagaagttat tctggaatga gaagagtgat 120

caaagtttcc aagagttgaa gaggcggttg acgacagctc cagtgttaat tttgcccgac 180

cctaagagaa catatgaagt gtattgcgat gcaagcgggc aaggcttggg gtgtgtgttg 240

atgcatgagg gaagagtact ggcttatgct tcgcgtcaat tacgtgctca tgaatttaac 300

tatccgactc atgactagga actagcggcg gtggtcttag ccttaaagat ttggaggcat 360

tatttgtac 369

<210> 4954
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4954

agcttgttaa tccatggaag ctcctaatat ctcccacact ttntggggtg ggtcattctt 60

ggatggcctt gattttctca ggttccactt ggaacccatt tctaccaact acaaaaccta 120

agaaaactat attatctaca caaaaggtac acttctctat atttgcatag agggtgtttt 180

tcctaaggat tgaaagaact tgcctgagat gtcctaagtg atcatctagg ctcctactgt 240

acactaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300

aatgcataag cctcataaag gtgcttggtg cattagtgag cccaaaaggc atcactagcc 360

attcatacaa accaaacttg gtcttgaaag ccgttttcca ctcatcaccc tttttcatcc 420

tgaattggtg ataaccactt 440

<210> 4955
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4955

agcttgtang gttaaagtct cacgattatc ttatgcttat gcaacaattg ttagtcgtgg 60

ctatacgaga catcttgcca aacaaagtca ggttaacgat aactcgcctg tgatttttct 120

tccatgctat atgtagcaaa gtcattgatc cagtcatgtt tgatgagttg gaaaataagg 180

ccacaattat actgtgccaa ttggagatgt attttccccc tgctttcttt gacatcatga 240

ttcacttgat tgtgcatctg gtcagagaaa tcaaatgttg tggtcctgtt tatctacggt 300

gaatgtaccc gattgagcga tacatgaaga tcttaaaagg gtatacaaag aatctatatc 360

attcagaagc atctattggt aagaggtaca ttgcaaaaga agccattgaa ttntgttcag 420

aatacttaga g 431

<210> 4956
<211> 365
<212> DNA
<213> Glycine max

<400> 4956

tagtaaatct ccgtatggcc tcaaacaatc tcctttgtgt tttgacaggc taacaaaagt 60

tgtcaagcaa gatgattttg cttaatgcca aacaagccat actatgtttg ttaagcattt 120

cttggatgga aagatagctt ttttattgtc tatgtagatg atattgtaat tacaagagac 180

gattatgatc aaataaatca tctgaagaat cttctagcca aggaatttga agtcaaggat 240

ctaggccaac acaagtattt tctaaggatg gaaattgctc ggacaaagaa tggtattttt 300

gttcattaaa ggaagtacac tttggattta cttcaagaaa tatggatgct tggatgaaaa 360

gcagc 365

<210> 4957
<211> 449
<212> DNA
<213> Glycine max

<400> 4957

gcttaggtct gcttaatata acacttttta gtttattatt ttcttagttg cttcctgcta 60

ttagtgcaaa ccattttgct atgtttcatg tttttctgtt tgtgttgtgg ttttgagttt 120

gaaagttgaa cgattgtgcc tagcttttg aactttaggg gacattgttg ttgttgaatg 180

gcactatatc acatgaatgc attttggttt gcaacctgct gagtttgcaa ggggttgtga 240

agcaaattta ataataaata aaaataaatg ttttctctct ggctctcttt gtatatttat 300

tgaaaaagta tacaatattt atagagtatc aatacttaaa aaaattaagt attataataa 360

aaaaaatatt tacattaagt gacttaaata tatttttaa tccaaagttt tacgatactt 420

aggtagacgt aggcacttac ctttgatat 449

<210> 4958
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4958

agctttcatn ntttaattat ttttattata tttgatattg atacaaaata tttgtctaaa 60

tagttatttt tgtctttgat tgtgtaattc gttgacaaat gtgggatgaa aatacaaaat 120

ttaggattca agagtgtaaa aagtgcgata aaaatatatc tggccgttaa aaaaatagtc 180

tacttaactt ttgtttgtca tagttaataa aataatctac gtggtataga gagatgaatt 240

tctcaatgaa atgattacca acgtggttat atttatattt aattgtcagt ataggagcat 300

atttgtcata taatattttt tttatttttt gtcttctacc ttattggtaa attgtgatta 360

attatcataa tttgaaaaaa aattataatg attgtggcaa aatttttag canactctaa 420

aataaattaa gtttaaaaga aaa 443

<210> 4959
<211> 443
<212> DNA
<213> Glycine max

<400> 4959

tccattgttc aatttcgagc gtctcgatat aatatgcgcc ttaatcttac ctccgagtga 60

aaagttatga ccattagaat tgctcaagag cttccattgt tcaatttcga gcgtctcgat 120

atatatatac gcctgaatcg gatctctgag tgaaaagtta tgacctttg aattgctcaa 180

gagcttccat tgttcatttt caggcgtctc gatatattat gcgccagaat cggacatccg 240

atttaaaagt tatgaccatt tgaatttctt gagagcttcc gttgttcaat tttgagcgtc 300

tcgatatatt atgcgcctga atcggacctc cgagtgaaaa ggtatgacca tttgaattac 360

taaggagctt tcattgttca ctttcgagcg tctcgatata ttatgcgcct gaatcggacg 420

tccgagtgaa aagttatgac cct 443

<210> 4960
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4960

agcttgctgc cacggagttn tccgactatg ctcttgtgtg gtggatcaag ctacaaaagg 60

agagagcaag atatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120

ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180

cccaaggcaa caaggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240

caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300

atatccgtga tattgttgag ctgcaggagt ttgttgaaat ggatgatttg cttcacaaag 360

caatccaagt gtgagcaaca ataaaaagga agggagtg 398

<210> 4961

<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4961

agcttagtaa agctaagcac tatcaatctc ctcttcttgt gcaaatttgt ctaaaacata 60

cttagacact tcctgagcag gtacgagcag ttatgcaagt gggatcagca actttcatta 120

tcagagtaat caagcacagc ggaatctgta gtttagacaa gttgcaagtc gtttccagga 180

tgtcaagaca tctcacatga catctgcttt ctgcttctgc tccccctgtt tccatgctta 240

ctgcagcatc ttctaacagc tactagtctt ctccaggatg tcaagacatc tcctgtgaca 300

tcagctatct gctccccctg tctccatgct cttactgcag catcttctag tagcttccat 360

cagtcatcat cagcagcagc agtctccccc tcagaatcgt atacatacaa ctccncctca 420

aaatcatgaa tcatg 435

<210> 4962
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4962

ntgaacatga gacatccaag ccctctagct cataacatct tttcaaattc aaatcttcaa 60

gagccctaca tccaacatga aggtatttta accccaaaca cgaatcgagg tttagggtct 120

tgagaagagg gaaagatgat tccgagaaca aatcaggaag agaaggttgg ttgttcaaaa 180

tgactaggga aagagatagg gtttgtaggg attgaaagcc atgtctcata accgatgaag 240

gaggcaaacg aaaccctgat tttagtttca aaaccctaag agtttcactt ccaataacac 300

acctaggaaa gttgaagtaa tcatctgtac acactgtgga agctccaata tcaagctctc 360

taacgttgtg cctaatggcc ctacggatca aactattcag ccgcgaaaaa ctcaaac 417

<210> 4963
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4963

agctntataa tatagtgcaa aagtttttt ctgccatttg taatttttat ttacaataat 60

ttttttcatg caggattatc aaactataac atcaccaccc gtctatatta gtccacttga 120

cttaggtccc aagtatgctg acaaattggg agcaggattt caggagtatc gaaagatata 180

cggtgaaaat tattgtttag ggcaactgat tttttggcat aatcagagta acgcggagcc 240

agattgcacc ctggctagaa taagcagggg ttgcttgtca ttaccagaca tcagttcctt 300

ttatgccaaa gctcagaagc cttcacgaca tcgtgtttat ggtccaagga ctgtcagatc 360

tatgctggca aggatggata gttattctgt atttatgaag ctctcattcc taactttctt 420

ttttgtggtg gggggg 436

<210> 4964
<211> 297
<212> DNA
<213> Glycine max

<400> 4964

atggacatga tggggcctga gctagatgaa cgccttggaa gaacagaagt gtgcactctg 60

ttgtatgagc atgatatctt cagaattacc tgagtcgact tgtgtctaga gatatcagac 120

acctttgaga gtttcaagga gttgagtcta agactatgta tatacctaga gtggggaatg 180

aagagaatca tgagtgacca tggcactgta tgctgcacat ctgaaggcat cactcatgag 240

ttctgtgcag ccattacacc acatcggaat ggcatagatg agaggataga caggact 297

<210> 4965
<211> 330
<212> DNA
<213> Glycine max

<400> 4965

agcttctcga tatattatgc actctgaatc ttatttccat ttgaaaagtt atgaccaatt 60

gaatttctgg agagcttccg ttgtgcaatt tcgagcgtct cgatatatta tgcacctgaa 120

tcagacttcc gtttgaaaag ttatgaccat ttgaatttat ggagagcttt cgttgtgcaa 180

ttccgagcgt cttgatatat tatgcgcctg aattggactt ccgtgtgata tgttatgacc 240

atttgaattt ctcgacagct tccattgcta atttcgagcg tctcgatata ttatgcgcct 300

gaatcggact ttcgtgtcat aagttatgac 330

<210> 4966
<211> 446
<212> DNA
<213> Glycine max

<400> 4966

tcaagaaaaa gatggcctca gcaaattcct tatttttcag aaggaattct atcaatagac 60

ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120

aggcaataga tctaaatatc tgggaagcca ttgaaatagg gccttatata cccaccacag 180

tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaaccta 240

tagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300

taataacatc tgccctaaga atggatgaat atttcagagt ttcaaattgc aagagtgcta 360

atgaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420

tgataaatgc actaactcat gagtat 446

<210> 4967
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4967

tatcattnga ctcaacttgc atacccactt ctaaaacaat ctagatacgg gagcatagta 60

ttaaatccat ccaatgcagc tataaacggt tttcccattt tatctgctta ttcagcctct 120

aaaggtatgc atttctagct agtttttttt tcatatccca gtatcccaac attgtaagta 180

aatataacct ttgaatttga atgacactac taaaaaaccc ttttttttacg tttctaggga 240

actgtcttan aatgtgactc agtggcattt gtgtaattaa tgcaaatata actacgatga 300

tctctcacac ccgtctttgt aggtaggacg caatgaaact ttttaaattg aagacttcat 360

taaagatggg atatagaagc aaatcgtcat tgtaattaag aaaataatta aaaataag 418

<210> 4968
<211> 404
<212> DNA
<213> Glycine max

<400> 4968

agcttccatc aagggagtga tgtctaagat gtgacctatg ccttccttcg taatagtcac 60

gaagttcttc acttaggttc ttgcaagagt tatgactact attggaggca tgtttttctc 120

ttttcatttc tttcattatt tttcttcttt cttcctctct tattttcttt ctttcatctt 180

gacttatttc ttctactttt gtttttcatt tttcttttct ctcttgtttt tcttttcata 240

acctgaggga actcaactca tctaagattc tagataaagg gtctttatga ctagtaccct 300

cgccattaac actagatgaa tgatgactca tgttggctcc taagttgttg ttctttcttg 360

ttggaggttt gaaaacataa ggaaaaagaa actatggttg aaac 404

<210> 4969
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4969

nttaactcgg aggtccgatt caagcgcatt atatatcgag acgctcgaaa ttaaccaacg 60

gaagctctcg agaaattcaa atggtcataa cttttaactc ggaggtccga ttcaggcgca 120

taatatatcg agacgctcga aattgaacaa cggaagctct cgagaaattc aaatggtcat 180

aacttttcac acggaggtct gattcaggcg cataatatat cgagaccctc aaaattgaac 240

aacggaagct ctcgagaaat accaatggtc ataacttttc actgggatgt ccgattcatg 300

cgcataatac attgagacgc tccanatgaa caacggaagc tct 343

<210> 4970
<211> 448
<212> DNA
<213> Glycine max

<400> 4970

cttttattgt aatcttgaaa ttcaggacag cactctaatt tctgaaattt ttgggataaa 60

aatggtcatt gaccagtccc ttttccatga cttaaccaaa ttacccagtg acggtgtacc 120

atttgaaggt tcactgaatg acgactggaa atttgatttc tctgcccatg atgcccgcca 180

gttggtttgc accaacaatg cggatatgac cggacgtctt cttgccgggt cattggcttt 240

tgaaagccgc atccttcact atttaattgt gcgtattttg cttccacggt cttccaacct 300

tgccctggtt tctgaggaag atctaattat catgtgggcc tttcatacag ggcgtcaact 360

tgactgggca cacttagtca aatatcgcat gcataaggca ttgcgattaa atgctccact 420

accatatcca cagcttgtca ctctcttt 448

<210> 4971
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4971

agcttgttgt caacaaacaa atcanaatca attttctgat catcaaaacc tagctccaac 60

ttcctcttcc ccatatcaac tatgcagctt gcagtcaaca tgaatggcct tcccaatatt 120

acagggatgt cagtatcttc agagatatcc attaccacaa agtctgtcag gaagataaaa 180

tgtttttctc tgaccaacac atcttcaatt actccatatg gcctggtaat ggaacagtca 240

gctaattgta aagtcattcg agtgggcatt atttccaact cccccaatct tctgcacatg 300

gagagtggca tcaaattgac actggctccc aggtcaataa gagcttttcc cacattgact 360

tctccaattg aataaggaat agttacactc ccaggatctt tatgcttggg tggaaggatc 420

ttttggatca tagcact 437

<210> 4972
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4972

gggatttcct ttagtaggga atctatcctt cctaagatgg agccattctt aatcaccctc 60

attaagaact agcttgtttc ttcctctatt gcttttagtt gaatacacct ttgtttggtt 120

ctctatttgg ntcttaaccc tctcatgcaa cttctttaca aactctgacc tagattcccc 180

ttctttatgt ataaaagaag tgtctagcgg gaggggaata aggtctaaca gtgttaggcg 240

attgaaccca tatacaacct caaaagggga ctgcttggtg gttctatcaa ccccctatt 300

gtatgaaaat tctacatgag gaagatactc atcccatgac ttatggttgc ctttcagaag 360

agcccttaga agggtggata aagacctatt cactacctat gtttgcccat cagtttgtgg 420

atgacaagtg gtag 434

<210> 4973
<211> 299
<212> DNA
<213> Glycine max

<400> 4973

tatctcagat ggagtgatct gattcgtcct gagcagaaca tccaagatgg gaaaggtcaa 60

gagactgaag cttctgcttt cagaaatgca gatatttgtg acaataaact tgtcgagggg 120

aaaagttgtt atggaataac ttttgggagc caaaaacatc ttccttctcg ggtgatgaaa 180

aatgttgttc aagtggagca cgatccacac ggaaaggaaa agtattgagg ttttgaaaca 240

cgcattccat tatattagat aaaagagtat gaagaacgtc atggaaatat gccatgtaa 299

<210> 4974
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4974

tcattggagc ttgtaggcct aagatcttct tcatcaatgg attccttcnt ttcttggaag 60

ataaatggca gcggaatgga gaatgaagag agagaggaga cgccacttca aggagaagat 120

gagtctagaa gaagctcacc accatacgag gccatggata agagcttgga ggaagaagga 180

gatgaatgaa gggagaggga gagaagagca cgaaattttg tgctcaaaag gagctctgaa 240

atctgaagtt aatattcaaa tgatcaaagt tgaaaaaaat gcacacacat gacctctatt 300

tatagcctaa ctgtcacaca aaattggagg gaaattcaca tttcacttga atttgatatt 360

gaatttgtgg agccagactt tggagccaaa atttcacgta atatgacta 409

<210> 4975
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4975

gacactatga tactcagctt aancattcaa tttgagcgtc tcgtaatatt acgggactct 60

ttcatacatc cgagtaaaaa tttattgtcg tttggattgg ctcagagatt caacattcaa 120

tttcgagcgt ctccatatat tacgggactc attcagacat ccgagtaaaa agttattgta 180

gtttgaatta gcttagagct tcaacaatca atttcgagcg tctcgttata tcacgagact 240

caatcagaca tccgagtaaa aagttattgt tgtttgaatt agctcagagc ttcaacattc 300

aattttgagc gtctcgatgt atgacgagac tcaatcagac atccgagtaa aaagttattg 360

tcctttgaat tggctcacag cttcaacatt caattttgag cgtctcgata tatgacggga 420

ctcaatcaga catccgagta taaagttatt 450

<210> 4976
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4976

agctntgagc caattcaaac gacaataact ttttcatgga tgtctgattg agtcctgtca 60

tatatcgaga cgctcgaaat tgaatgttga atctctgagc caatccaaac gacaataact 120

ttttactcgg atgtctgatt gtgtctcgta atataacgag actctcaaaa ttgaatgttg 180

aagctctgag ctaattcaaa cgacaataac ttttaactcg gatgtctgat tgagtcctgt 240

catacatcga gacgctcgaa attgaatgtt gaagctctga gccaattcaa acgacaataa 300

ctttntactt ggatgtctga ttgactctcg tcacatatcg agacgctcga aattgaatgt 360

tgaagctctg agccaattca aacgacaata acttttact cggatgtctg attgagtcct 420

gtcatata 428

<210> 4977
<211> 447
<212> DNA
<213> Glycine max

<400> 4977

tatcaattct caagaagcat aagaaggcta taggctggac tctggcggac attcctggta 60

ttagcccatc cacatgtatg catcggataa atttagagga tggggctaaa ccagtaagac 120

agccatagag aagactcaac ccggtgattc ttgatgttgt gaagaaggag gtaaccaaac 180

ttttgcaagc tggaatcatc tatcctatct ccgacaacca atgggtgagt cccgtccagg 240

tagtcccgaa gaaaaccggc ctcaccgtga taaaaaaatg agaaggagga gttgattcct 300

actcgggtgc agaacagttg gagagtctgc atcgactata ggaggctgaa ccaggttacc 360

aaaaaggacc attttcccct gccattcatt gaccagatgc ttgaacgcct ggcaggtaaa 420

tctcactact gttaccttga tggtttt 447

<210> 4978
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4978

tgaaggtgtg tagcccacca tctggtaatg tgtctactat tattgtcatc attttttttt 60

cgtcattgag gtgccacttg agctgccagg tctctccacc tttgggcgta ttctttgaaa 120

gatctgtgcc ccttttttgca catgttctgt tgttgcatcc tatccggaac catatcaaaa 180

ttgtactgat actgcctaat gaaggcaaac attaggtcct tccaagagtg gactcgagaa 240

ggttccaggt tggtgtacca ggtaacagct accccagtaa gattttcttg gaaggaatgt 300

atcagcaatt cctcattttt tgcgtatgcc cccatcttcc gataatacat ctttagatgg 360

ttcttggngc aagtagtccc cttgtacttg tcaaagtcag ctccttgact tgggagggga 420

tgatattggg tctaggacaa 440

<210> 4979
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4979

ngaaatngaa caacggaagc tctcgagata ttcaaatggt tataacttgt gacactttag 60

tcctattcag gcgcataata taccgagacg ctcaaaattg aaaacggaag ctctcgagaa 120

attcaaatgg tcataactta tcacacggaa ggccgactcc ggcggatagt atatcgagaa 180

ggtcggaatt gaaaaccgaa agctctcgag aaattcaaat ggtcataact taccaaacga 240

aagtccgatt caggcgcata atatatcgag aagcttgaaa ttgatcaacg gaagcactcg 300

agaaattcaa atggtcataa cttatcacac ggaagtccga ttcaggcgca taatatatcg 360

agacgctcga aattgaacaa cgaatgctct cgagaaaata aagtggtcat aatttgtcac 420

acggaaagtc gattcatgcg catactata 449

<210> 4980
<211> 404
<212> DNA
<213> Glycine max

<400> 4980

tcacagtctg agtcatgaat aaggggtcat ttaatttttt tattggataa gttattaagg 60

ttttttttttt actcaaatgc ataggagtag taagttaatt aagttgataa tcacgaaaag 120

agacataccg acagtggcag ctctataagt gttcgttcca tctatgaagt ttttgttacc 180

agatattcgt gtctttttcc ccccttcacc aataaacacc acatgggtca tttattttgt 240

aacttcaaca tactcttgga aaacgccttc cttgatgtag atcacaaatg gctttctgtg 300

tttctacggc acttgcttca atgcctcatt gatgcttttg aaatctccac taccatctat 360

ggctcagtaa cattacgctt gcggtttaat ggacttgcat tttc 404

<210> 4981
<211> 360
<212> DNA
<213> Glycine max

<400> 4981

agcttttaat ggaagtcagg agaatgaaag tgcgctgcaa ccattagctg gaaacgaagt 60

tcatgattgg gtgatgacct aaaagaagac accatctgac acaaacatat ggaagaaaag 120

ctcaatattc tttgatcttc catactggtc tgatctacat gtgcatctag atgttatgca 180

tatcgagaaa aatgtgtgtg atagtttaat tggtaccctt cttaacatta aaggcaagac 240

aaatgatggt ttgaaatgtc atcaagacct ggttgacatg agaatacaag agcagttgca 300

tccgatatca catgatcgtt aaacgtatct tcccccagca tgccacacaa tgtcagcaac 360

<210> 4982
<211> 413
<212> DNA
<213> Glycine max

<400> 4982

tccgttgttc aatttctagc ctctcgacat cttatgcgct cgaatcggac atccctgtga 60

aaagatatga ccatttgaat ttctcgagac tttccgatgt ttaatttcga gcgtatcgat 120

atattataag ccagaatcgg acattcgtgt gaaaaggtac gaccatttga atttctcaaa 180

agcttctatt ggtgaatttc cagcctctca acatcttatg cgcacgaatc agacatccgt 240

gtgaaaaggt atgaccattt gtatttctcg agagtctccg atgtttaatt tccagcgtat 300

cgaaatctta tgagcctgaa tcggacctcc gagtgaaaag gaatgaccat tcgaatttct 360

caagagcttc cgttgttcaa ttgcaagcct ctcacatact atgcgcccga atc 413

<210> 4983
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4983

agcttataat atatcgatag gctcgaaatt ttacatttaa actctcgcga aattcaaatg 60

ggcataaatt ttcacacgga tgtccgattc gggcgcataa tatgtcaaga gtctcgaaat 120

tgaacaacgg aagctcttga gaaattcaaa tggttataaa atttcacacg gatgaccgat 180

tcaggcaaat cacatatcga gacgatcaga attgaacaac ggaagctctt gagaaattca 240

aatggtcata acatttatct cgaatgtcca atttaggcgc atcacatata gtgatattcg 300

aaattgaaca acagaagctc tcgngaaatt caaatggtca taacttttca cactgaggtc 360

cgattcacgg ttataatata tcgatacgct cgaaattaaa catcggaaac tc 412

<210> 4984
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4984

tccatcaaga gccatcaaca acatcacggt aaatatatac atcccattcc taggctagac 60

gatatgttgg atgaattgca tggagcctgt gttttctcta aaattgattt gaaaggtggg 120

taccatcaaa ttaggattag agaggggat gaatgaaaaa caactttcaa aactaagtat 180

gggctgtatg aatcgcttgt tatgcccttt gtgctaacca atgctcctaa cactttcata 240

agattaatga accatgtgtt aagggaattt ctaggaaaat ttgttgtggt tattttgatg 300

atatcttgat ttacagcaaa ttccatgatg aacatcttgt gcatctgaga agagttttag 360

aggcctttan gcgtgagagc ttgtatgcta acatggataa at 402

<210> 4985
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4985

tggatttcct cttagtaggg aatctatcct tcctaagatg gagccaaacc cagnccccc 60

tattaagaac tagctccttt cttcctctat tgcctttagt tgcatacacc tttgtttggt 120

tctttatttg gttcccaacc ctctcatgaa acttctttac aaactctgac ctagattctc 180

cttctttatg tataaaagaa gtgtcaagta ggagggtaat taggtctaat ggtgttagag 240

gattgaaccc ataaacaacc tcaaaagggg attgcttggt ggttctatgg accccctat 300

tgtaggcaaa ttctacatga ggaagatact cattccatga cttatnggtg cttttcagaa 360

gagcccttat aagggtgtat agagactatt cactaccttt at 402

<210> 4986
<211> 349
<212> DNA
<213> Glycine max

<400> 4986

gtgcctgtat attgatgcac gctgaatcag agatccgagt gacgagtgat gaccattcga 60

atttgtcgag agctgtctat gtttaatgat cagcgtctcg atatattatt cgcctgaatc 120

gaagctaagg gtgaaaagct atgaccattc gaatttctct agagcatccg gtgttcattt 180

tctagcgact atatatgtga ggcacctgaa tcagacctgc gtgtgaaaag gtatgaccat 240

tagaattact cgagagctga cgttgatgaa tttgcagcgt ctacacatgt tatgctccgt 300

aatctgacat ccttgggaaa aggtatgagt attcgaattt atgcgagag 349

<210> 4987
<211> 423

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4987

agcttgaaat gttatgacca tttgtttntc tttagggctt tcgatgttta atttcgagcg 60

tatgaatata ttataagcct gaatcggacc tcagtgtgaa aagttatgac catttgaatt 120

tctcgagagc ttccgttgtt caatttcgag cgtctctgta tgggatgctc ccgaatcgga 180

catccgagtg aaaagatttg accatttgaa tttctcgaga gctttcgttg ttcattttcg 240

agcgcctcta tatgtgatgc gcctgaatcg gacctcagtg tgaaaagcta ttactgtttg 300

aatttctcga gggctctcga tgtttaattt cgagcgtatc aatatattat aagcctgaat 360

cggacctcaa cgtgaaaggt tatgaccatt tgaatttctc aagaacttcc ggtgttcaat 420

ttc 423

<210> 4988
<211> 354
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4988

agcttcctcc cttcatcaaa ccatttatat atcaaaggac cacaaattct ataaaaaaaa 60

aatggagatt tatacaccgg actcatgcta ctaataacat caatcatagg ttgataatat 120

gtcgagttaa ttgcattaaa tggcactata gcatctatca tccattttgc aatggctttg 180

tcacactttt ctacaatttt cttattttgc aagacactct tcaagctagg ttgagcttta 240

ggagttgttc taggcatgaa atagtcatct acatgaatag tgttctttcc tttntgagac 300

ttggaagaaa caggtgaatt tggagttctt cttaattcct caactattct caca 354

<210> 4989
<211> 323
<212> DNA
<213> Glycine max

<400> 4989

ctggatgcga tgggcaactt ggaaacccag ttggccttgt atcatacatc tgaacctgtc 60

gcaagggttt gtggattgtg ctcctctgct gaccaccata caaacctttg ccctgccatg 120

cgagaatcta taacaattcg accatccctg tagctgatgc accaaatata tacaatatac 180

ctcctcaacc taagcagcaa aatcaaccac agcagagcaa ttatgacctt ttcagcaaca 240

gatacaaccc tgcatggagg aatcacccta accttaaatg gtccaggcct cagcaacaac 300

aacaacagcc tgctccttcc ttc 323

<210> 4990
<211> 452
<212> DNA
<213> Glycine max

<400> 4990

gtataaataa caaataactc gtgattattc attattcctt tggagataca aatatgacca 60

agtttcagag gatagaatga cactggccgt ttacctaaag ttcaatatgt aacacactaa 120

acgactcagt tcaccagata tatacaagtt tatagcttta ggaactcaaa cctacacaac 180

actaaacacg atagctcatt caacttccaa catgctgtat atgattcaca agatggattc 240

cttatctcac tgataaacat cttacggtct tcttccagag acattccttt cattgttatt 300

tataagattc aaatttaaaa tgatatgttt taataacact caatctataa tgttccttat 360

ataaattatg tttacaccag agatatttct ctctaaaaaa ataaatataa tgtattaata 420

aactattaga agagtagaaa gaagcactaa tg 452

<210> 4991
<211> 386
<212> DNA
<213> Glycine max

<400> 4991

gtgcctgtat attgatgcgc ctgaatcgga catccgagtg aaaagttatg accatttgaa 60

tttctcgaga gctctctatg tttaattttg agcgtctcga tatattatac gcctgaatcg 120

aacctcagtg tgaaaagtta tgaccatttg aatttcttta gagcatccgg tgttcatttt 180

cgagcgtctc tatatgtgat gcaccttaat cggacctccg tgtgaaaagt tatgaccatt 240

tgaatttctc gagagcttcc gttgttcaat ttggagcgtc tcgacatatt atgcgcccga 300

atcggacatc catgggaaaa gctatgacta tttgaatttc tggagagctt ccggtgttca 360

atttcgagcg tctgtacatg ttatgc 386

<210> 4992
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4992

agcttcttag ttncagatga tgcatatggg tttgtagcta cctcatgcac ttctctaatg 60

actatggcat catttctggc gctaaactgc tgggagttgg aggccatctt ctcaattaaa 120

tttctggctt tagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180

cttctctcca tattactgag tccttcataa aaatattgga gaagaagctg ttctgaaatc 240

tgatggtggg ggcaactggc acatagtttc ttaaatctct cccagtactc atacaggctc 300

tctccactga attgtctaat acctgagata tccttcctga tggatgtggt cctggaagca 360

gggaaaaaat nttctaagaa tactctctta aggtcatccc agctcgtgat ggaccttgga 420

gcaaggtaat ac 432

<210> 4993
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4993

agcttagaga aatcgattat gtcgaccctg atatagtttt gttcctctac attcaatcct 60

acaagagttt cctcctacgc acgcacaaga actctgtcgt tgtcgctgat gtatggcctt 120

ccatcttcac cttcgacgac tacttgctgc tctctcgttg cttcaggtga attcttttt 180

cgagctggtg ttcattgcta tttttttgt tcgttatgat tctttttga tttctatatt 240

aaattgttgg cgagttcatt ttgagtgatt ttgntgactt gatacaaaag atattagttc 300

ta 302

<210> 4994
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 4994

tccttaagaa gattccttaa gaagctagaa gctanctaca tatactcttt taatagctaa 60

gctcacctcc ttgagatgag aagctagagc ttagctacac acccccctata atagctaagc 120

tcacacccat gacaaataca tggaaataac taataaaagg ccttattaca aagacaactc 180

aaaatgcccc gaaatacaag gctaaaaccc tatactactt gaatggccaa aatacaaggc 240

ctggacgaag gaataaccta ttctaatatt tacagagatt agcgggctca tacttagccc 300

atgggctcaa aatctaccct aaggctcatg agaaccctag ggcgctttgt tggatctcta 360

gcccaatct 369

<210> 4995
<211> 288
<212> DNA
<213> Glycine max

<400> 4995

gcattggatc aaagacctca acaagattat gctagagatg caggacaagg ccctaaggct 60

ctcatgatcc gtagggtaca ttatgagtcc atggactaag tacgagtcca cttatccttg 120

gacaactgag aataagattt cataactgtt ggacctcgca tttacggctc catagtataa 180

agagggcacc ctagtaatgc aggtatttta gcccttatat ttgagaacac agagactaat 240

ttttgtatta cgggtagctt tgtaatttca catacattaa gtgcacta 288

<210> 4996
<211> 361
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4996

agcttaatta acttgtgttc tgaacatntg ttatcattta attttaaata caataccatg 60

taaaatattc ctaattgtgc cattggggct cctccacata gacttcagtc caaattctct 120

cactcgggtc tcatctgaaa atttggaagg gttaagataa tatcagttct gcacaaaaat 180

gataaatcat gattatgcac tagttgccac ttgcagtgca ctatgtaata tgaacaaacc 240

agtacactaa atctagcata acttctgact atggaacaaa gtagtctatt aattcatgag 300

tcatgataca gaattaacac atttatagag aagaaagatt gagtgagaag atattcgtat 360

t 361

<210> 4997
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4997

ctaagcttgc catttggctc cacagatgga ctgtgtaaga ctcttcttgt ctctcattat 60

agctgatcaa gttgcccacg tgtatgttaa gttctttgga tggtggacta agatcattnt 120

gcattttgtt ctttctactg ctttgaagac tccagttttg ttccaccact gatttatgct 180

gacatgggta gctctcgtga tattgctata ggaccagagg cagtggtttc tctcttgttg 240

gggacgttac ttattaatga gatcgatgcc tatacacatc cagcaaaata tcagcgactt 300

gctttttcag ccacttttat tgttgggatt acttaaacaa cgcttggtgt tcttaggtat 360

gatactacta ctactatatc tatatgtata tatatcttta tatatgatat agatatttat 420

<210> 4998
<211> 420
<212> DNA
<213> Glycine max

<400> 4998

ctgcagctag gaagcatctg gagaggctta ttttattttg agatccaccc tggagcgact 60

aatatgtact aagaccttag gttgatgttt tggtggccgg gtgtgaacaa agaagttatt 120

gagcttgtcc ttgcatgcct agtgtgtcag atagctatga tagatcacca gatgccttca 180

gggaagttgc aacctttata gatacccgag tggaagtggg atagtatcta cttggatttc 240

gtggtggggt tacctaggac cctcaaaggt ttagattcca tttgggttat tgtatacatg 300

tcgaccaaat ctgcttcctt tatccctatt tacatcagat attctttata gaggttgatg 360

atcttgttcg tctgtgagat tgttagacca ctcagcgttc cttctaccat aatctttgat 420

<210> 4999
<211> 364
<212> DNA
<213> Glycine max

<400> 4999

ttaagcacgc gctgcacttc tttgtactgc ttggattttt tatctggcac tctacacttt 60

gtcatataaa tagtcgatgc atatctaaca tgagtaactt atgttttatt ccaaagctat 120

cttcaaatca ctttgaaaaa tgtgtgtctt gcagtcaatc tacaaaaact aagaaatcac 180

atcaatcagt agctaaagaa cttgagccat tggatttaat acattctaat atatgagaat 240

ttgatggaat gttgaccaaa aatggaaaac gatattttat cactattatt gatgactgct 300

ctgattatac atatgtatat cttatgaaat ataaaagtga agcgcttgac atgtttaagt 360

tatt 364

<210> 5000
<211> 371
<212> DNA
<213> Glycine max

<400> 5000

agcttctcat tctctctcat aaggtattta ttgtttttc tttatataat acattaacat 60

taaaattatc aattaaaaac aacattatat aatctgtttt agtagttgat ggattactct 120

atggcttaat ataattcttt aacattgctt ttttttttt ttgtggtgtg tctgcacact 180

atgcttgggt tgtctttgta ctcaagtggt ctgcaatagc cacactcttg cccaagagaa 240

cggacaatga tatcaagaac taccggaaca cgcatattaa gaaaaggcta actaaaatgg 300

gaatcgaccc tgtgacacac atgcctaaaa acgatgcact tttctctagt gacggtcatt 360

cctaaaccgc t 371

<210> 5001
<211> 310
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5001

aaccccatgg atcaatgcat ataccacaag gtcagtggga gtaaaaaaag ttttccttgt 60

ttatatgtag atgatanttt acttgcagcc aatgatccgg gttcgctaca tgaggtgaaa 120

caatttctct cttagaattt tgacatgaag gatatgggtg atgcatctta tgtcatcagc 180

attaagattc atagaataga tctcgaggta tttgggtcta tcacaagaca ctatattatc 240

caaattttag agagaattcg gatgaaagat tgttcaccaa gngttnctcc cattgtgaag 300

ggtgataggt 310

<210> 5002
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5002

ancttaagca gtgatcaaac tcgctctttg tttctggttt tgcgaacata tcagtaggat 60

tatgcagagt gctaatctta tgaactttgg ttcttctttc tgaccgaatg aagtgatatc 120

taacatctat atgcttggct ctatcatgat gaacctgatc cttggccaag catatagcac 180

taaggctatc acaatagatg tcagcatatt cttgattaat tccgagatca tatatcaaac 240

ctcttagcca aattcctttc tttgcagctt cagaaagagc catatattca gcctcagtat 300

ttaagagggc aacagaacgt tgaagtgttg ccttccaact caccaagcag ccaccaaggg 360

tgtaagcata tcctgtnatg gaccttctct tgacaagata agctgca 407

<210> 5003
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5003

agcttagcaa atggacctgn gaggngttca ttttcatcat atcttccgta atactcatca 60

cctctatcat atctaataat tatcacattt atgtctaatt gcccatttat ttcattgtag 120

taaatttcta aggcatccat tgcctaagaa atcttgggca gtaagtagac ataacccgaa 180

catgaataat catcaataat ggtgataaag tatctttcct ttctgaaaga actaacatct 240

aatggtccac aaatatcagt atgcacaact tcaagaagct gagtgcttct tgtagcttct 300

ttctttgaat gtttagcttg gtttcccttа atacatccca cacaaatatt tagattcata 360

taatctagat aacgaagaga ttcattcttt attaatcttt ccatcctttc tcta 414

<210> 5004
<211> 385

<212> DNA
<213> Glycine max

<400> 5004

atatattaga gggactcatg gtcactatga atgacaaatt ccttaagata aaggtagagt 60

tgccatgttt tcaaagcgcg tactaaggca tacaactcct tatcatacgt tgaatagtta 120

tgggtaagac cacttaactt ttcactacaa taggcaattg gatggcctta ttgcatcaac 180

acagccccaa tcccaacatt tgaagcatga cactcaattt caaaagattt tttacagttt 240

ggcaacgcat acatggggca ttagttagct attgctgaag aacattgaaa gcttcttctt 300

gtttctctcc ccatttgaaa ccaacatttt tcttgagcac ttcattgaga ggcgctgcca 360

atgtgctaaa atccttcaca aatcg 385

<210> 5005
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5005

actaagctta catattatat atataatgat atgatggaaa aattatttat aatgaatact 60

tagtacacaa tattttnttt cttaaaaaaa cataattaca atattatatg ttcaaatatt 120

ctatatttgt ctcttataat tatcccatac tccaatataa taatatttaa caagcttaca 180

tgttaaaatt aactcattta aataagtgaa tcaaacttca gatacaatat atttttntaa 240

tccatgcttg agacttaagt gctcgaatca actcaaatcg tttacacaag ggttctctaa 300

tacacacaca aatgcatata acttctaatt ataagaaaat ttcaagtaca gtataaaata 360

tttatgaatt agtatattaa ntacttaata attcaaagat tggattgcta aatatcatg 419

<210> 5006
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5006

agcaattcaa cgacnaagct tttacttgat gtttatgagg cccgcaaata tggagacgct 60

cgaaattgaa tggtgaagct ttgagcaaaa tcaaacgaca acaacttttt actcggatgt 120

ctgattgagt cccgtaatat atcgagacgc tcgaaattga atgctgaacc tctgagccaa 180

ttcaaacgac aatcactttt tactcggatg tctgattgag tcccgcaata tattgagacg 240

ctataaattg aatgttgaag ctttgagcaa attcaaacaa caatcacttt ttactcagat 300

gtctgattgt cgcccgtaat atatcgagac gctcgaaatt gaatgttgaa gctctgagcc 360

aattcacacg acaataacgt attactcgga tgattgactg agtgccgtat ataacaagac 420

gctaaaattg 430

<210> 5007
<211> 660
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5007

cttatagagg ccttttggat ctcatgcctc acacaatttt aaaagcatgt tcatgaaaac 60

ctgtaaatac agttccacta tcaaatatca tataaactaa ctaatacaaa tgataagaaa 120

tgcctaatgg tgccttgcct caataaaatt tgcatcaggt aacatggcac ggcaagtgtc 180

tcggtctctt ctgtaaggag atatcagact agcaacacat attaagccag catcagcaaa 240

cagttttgcc acttctccta gattaaataa ttttttttatc agtaaaacca agttgatatg 300

catcagattt tttaatacac tacagctata tacaataact ttgaaggatt aatagattat 360

ttttcatcat ggaactaatc caaatacact aatattgatt agaagttttt ttcatgtaat 420

aagttggcca agagtagatt gcaatattgt gtagactgca aaccaaccat tttgagaaag 480

gtgaagtgtg tcccacaaga aagaaagatt cgggttctca cataaactgt atttctttga 540

tccttcgtca tccacacttn cacatgaatc ttccacttgt ttccctcaca gcatggttgc 600

aacggattca tcagtgtaga cttttctgca taatgtagaa agaaaaaaaa ctgtcatcat 660

<210> 5008
<211> 500
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5008

agcttttaaa attaaggatc ttggtgattt gaaaattttc cttggtttct aagttgcaag 60

aagtaaagtt ggtattaaca tttctcaatg caaatatgca cgtaagctat tatataatgc 120

tggtttattg ggttcttgcc ctgttagtac tccaatagat tacaacacta gaattcatca 180

caattcaaga ttacatttgc ctgatccttc atcatataga tgcctaattg gtagattgat 240

ctatttgacc aatactcagt ctgatattac atatgttgta caacatgtta gtcaatttat 300

ttatactccc actactgcac atcagcaggt agtagcttgt atccttcgtt acattaaggg 360

tgctcctagt ttcgatctct tctaaccagc aaataatact gctaaactca aagcctttag 420

cgactttgat tgggctagct acataaagac tagacattcc atcattggat tntctattta 480

tcttgggtct tgtcttattt 500

<210> 5009
<211> 456
<212> DNA
<213> Glycine max

<400> 5009

agcttcatgg ggcaacattg aattattccc cgtatgacaa agttgtgtat gctttggtaa 60

gagctttata gacatggcaa cactatttat ggccaaggga attcataatt cattttgacc 120

atcaaagttt gaagtttcta aaatctcaag gtaagcttca aaagagacat gccaagtggt 180

tggaattaat taagatgttt ccttgtgtga tcaagtacaa gaatggtaag gaaaacatag 240

tggttgatgc tttgtccaga aggtatgttt tgcttacttc tttgcaaact aaattgcttg 300

gttttgagtt tgtgaaggac ttgtatgcta ctgattctaa ctttggcaaa gtatgagatt 360

cttgttctaa acatgctttt ggaaattata tagacatgat ggtttattgt ttaaaaaaat 420

aaattgtgtg tgcctatgtg gtccttgtgt gaaatg 456

<210> 5010
<211> 640
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5010

tccttcaatt ggacaacagt ggtgtgcctc ttaatatcac cacctaagta gtgtttggtt 60

ctactgccac gctgtccatg tccttttggt ggttgggtcc tccaatatca ccactccaag 120

tggcataact tcattgatga agaatggtct agaccacttg gatttcagct tacctagaaa 180

caatctcaat ctagaattaa ataacaaaac ctgttgacca ggctgaaaat tcctttctga 240

aagcttttta tcatggtaaa ttttaactct ttgcttataa atcttggaat tctcataagc 300

ttgaaacctc agttcctccc attcatgaag ttggagcttc ttattttcac tagttgcatt 360

tgagtcaaaa ttcagaaact tcaatgccca ataagttttg tgctccaact caacaagtag 420

gtgacaagat ttgccataga ccaattggaa gggagtgcat cctgcatgag ccttgtatgt 480

tgttctgtat cccccacana gcttcttcta gtacttgnga ccaatctttc cttgattgag 540

caattgtttt ctctaagatc ttcttggctt ccctgttaga actntagctn gtccattggt 600

ctgggggtgg taaggagaag ctaccttgtg tctaacacta 640

<210> 5011
<211> 295
<212> DNA
<213> Glycine max

<400> 5011

cttctagctc actccaaata gcacctccaa ggtgctgttg ctacaacaca tggacttggt 60

cgggcctatg cacgtaccaa accttgaaag aaacaagcag gccacaaatg ctggggcaga 120

tttttaccga tgcaccttga tgtatttttc tctagaaact tcattacgat gcttgcttct 180

caagctttat ttctaagact ttaacacact acagacattg tcttaaagat aacaacggac 240

agatcatgga gaggagtttg gagcagcagg atacctgaat tcgagacaat tgaac 295

<210> 5012
<211> 608
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5012

tctcgatata ttgagcacct gaatcggact tccgtttgaa tagttatgac cttttgaatt 60

tctcgagagc ttccgttgtt taatttcaag cttcttaata tattatgtgc ctgaatcgga 120

cttctgtgtg ataagttatg accatttgaa tttctcgaga gcattcggtg ttcattttca 180

agcttctcga tatattgtgc acctgaatcg gacttccgtt tgaagagtta tgacctttg 240

aatttctcga gagcttccgt tgtttaattt caagcttctc gatatatttt gcaccttaat 300

cggacttccg tgtgacaagt tatgaccatt ttaatttctc gagagctttc gttgttcaat 360

ttcgagcttc tcgatatatt atgcacctga atcggacttc cgtgtgaaaa ggtctgacca 420

tttgaatttc tcgagagctt tcgctggtca atttcgaggg tctcgatata ttatgcgctt 480

gaatcggact tccgtttgaa aagttatgac catttgaatn tctcgagagc tttcgttggt 540

caatttcgag ggtctcgata tattatgcgc ctgaatcgga cttccgtgtg ataagttatg 600

acccattg 608

<210> 5013
<211> 335
<212> DNA
<213> Glycine max

<400> 5013

agcttgaaat tgaaaaacgg aagctctcgg aaaattcaaa tggtcataac ttatcacacg 60

gaagtccaat tcaggcgcat aatatatcga gacgctcgaa ttgaacaccg aatgctctcg 120

agaaattcag attgtcataa catgtcacag ggaagtccaa ttcacgaacc taatatatct 180

agactcttga aattggacaa cggaagctgt tgagaaattc aaattgtcat aacatgtcac 240

acggttatcc aattcaggcg cgtaatatat cgagactctc gaaattgcac aacggaagct 300

ctctagaaat ttaaatgagc attacatttc acacg 335

<210> 5014
<211> 501
<212> DNA
<213> Glycine max

<400> 5014

tgaaattgaa caacggaagc tcttgagaaa ctcaaatggt cataacttgt cacacggaag 60

tccgattcag gcgcataata tattgagatg ctcgaaattg aacaacaaat gctctcgaga 120

aattcaaatg gtcataactt gtcacacgga agtccgattc aggtgcataa catatcgaga 180

cgctcgaaat tgaacaacca aagctctcga gaaattcaaa tggtcataac ttatcacacg 240

gacgtccgat tcaggcgcat aatatatcga gacgctcgaa attgaacagc gtatggtgtc 300

gagaaattca aatggtcata acttgtcaca cggaagtccg attcaggcgc ataatatatc 360

gagaagctcg aaattgaaca acagaagctc ttgagaaact caaatggtca taacttgtca 420

cacggaagtc cgattcaggc gcataatata tcgagacgct cgaaattgaa caacgaaagc 480

tctcgagaaa tcaaatggtc a 501

<210> 5015
<211> 327
<212> DNA
<213> Glycine max

<400> 5015

agcttgaaat tgaacaacgg aagctctcta tatattcaaa tggtcataac ttatcacatg 60

gaagtccgat taaggcgcat aatataccga gacgctcgaa attgcacaac ggaagccctc 120

aagaaattcc aatggtcata actatcacac ggaagtccca ataaggcgca taatatatcg 180

agaatctcga aattgaacaa ctgaagctct tgagaaattt aaatggtcat aacttatcac 240

acaaaagtcc gattctggcg cataatataa ctagacactc taaattgaac aacggaggct 300

ctctagaaat ataaatggtt attattt 327

<210> 5016
<211> 500
<212> DNA
<213> Glycine max

<400> 5016

agcttgttca agatatgctc cgcaactttt gtctagccac ggggctagag gtcaatgttt 60

agaaatctaa attctctgtc tctaaaaatt tgaggaggta gaaagttgat aaattcacca 120

ccattctaga tttcctacac actcaacatc tggggaaata tttgggattc cctttattag 180

ttgggcagaa caaagaatac ttaattttct ttcattttgg acaaaattga taaaagaatt 240

gttgggtgaa agagcaaagt tcttaacaga gctgggagga tcactcttgc aaactcagtc 300

atgtttgcaa tccctaccta tcctatgcaa aatttgtaga ttccttaagg tatttgtaat 360

acaatcgatg ctataagaag ctttatatgg tggactggtc gactattaca aaaccgcgcc 420

acataggggg ttttgacata agcgagagta cgccattcca cattgtctta ctatgaaaac 480

atgtttgggc tctcatgaac 500

<210> 5017
<211> 522

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5017

agcttcaaga aaaaagatgg cctcagcaaa tttcttattt ccagaaggga attctataaa 60

tagacctcca atcttcaatg gagagggtta ccactactgg aaaacccgaa tgcaaatttt 120

tattgaggca atagatctaa atatctggga agccatagaa atagggcctt atatacccac 180

cacagtagaa agagtttcaa tagatggtag ttcatcaagt gaaagcatag ccatagaaaa 240

acctatagat atatggtctg aagaagatag aaaacgagta caatacaact taaaagccaa 300

aaacataata acatctgccc tgagaatgga tgaatatttc agggtatcaa attgtaagag 360

tgctaaggaa atgtgggaca ctcttcgatt aacacatgaa ggaactacag atgttaaaag 420

atctaggata aatgcactaa ctcatgagta tgaattatnt ataatgaatg caaatgaaaa 480

tattcaaaac atacaaaaga gatttacaca tatagtaaat ca 522

<210> 5018
<211> 639
<212> DNA
<213> Glycine max

<400> 5018

ttggagtttc caagtgccaa ttcgtcttct tctttagtcc agtcttcttc tggcttcaat 60

tcatcagtgg gctttccttc tgtgtccaac atcttgggat gttcccagcc tttgatgaca 120

gctttccagg ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccagtat 180

tcatagttgg ttccatcaag aattggtggt ctgttcactg gtcctccttc tttctccatg 240

ttcatcagaa tttatctccc tagatctcac tctgtgattt cgagtgttgg ctctgatacc 300

aattgaaatt ctgataccag gggacagatg tcgtacagga tgtcacgaca tcacgcttca 360

gaacatgcag tttatatgtg tctgtatgaa cagattaaac aagtaaataa cacaagagaa 420

ttgttaaccc agttcggtgc aacctcacct acatctgggg gctaccaagc cagggaggaa 480

atccactctc aatagtgtta gttcaaggtc taacagcccc tgtttacaac cttctcacct 540

aaccactacc cgtgcgatct ctacctaaga gccactctta gatatgagaa cctctgctca 600

ctcccctctca ctcacactcc cgtgtttaca attaagtca 639

<210> 5019
<211> 564
<212> DNA
<213> Glycine max

<400> 5019

tctgcttatt agtgcacaac tctttcaaga atttagcata tcttggaatt tgctttattg 60

catccagcag aggtatgttt acctctactt ttctaaatgt ttccaatatc tccttctcag 120

tatcttccat ttttttgttg gaaattgctc ttggagggaa tgaaagaggg atatgttgct 180

tctctttaga ttcacctgca tagaaattgt taggtaactt actctttaaa tttttgtcat 240

catctttttc tggagtagag tgaagttggg caggttcatt tgcagatgag gaagatgttg 300

ctggttgagg ttcttgacac tgctttcctg acctcaatga aatgacactc acatttttgg 360

gattctggac agattgagaa ggcaatatgt cagaattctg ggactgttgt tgatttaact 420

atgtagccaa ttgtcccatc tgattagtta agctctgaat ggaagctctg gtatcttgtt 480

gaaactgcat gttttgcata gtcatttgcc tcacaagttc ttcaagggaa ggttgcgaaa 540

gagcctcaac tgtttgctat ttct 564

<210> 5020
<211> 567
<212> DNA
<213> Glycine max

<400> 5020

tctacagaag gtttgttcct aatttctcta caattgcctt acctctcaat gagctggtga 60

agaagaatgt ggcatttact tggggtgaaa gacaagagca agccttttt ttctcaaaga 120

aaagctcatc aaggcacttg ttctagctct tcctcacttt tctaaaactt ttgagctaga 180

atttgatgcc tctggagtgg gagttggagc tatattgtta caaggcgggc accctattgc 240

ttattttagt gaaaaacttc atggtgcccc cctcagctac cccacctatg ataaagaact 300

ttatggccta attagaaccc ttccaaactt gggaacatta cctggtttcc aaggaatttg 360

tcattcatag tgatcatgaa tcacttaagt acattagatg acatagcaag ttaaacaaaa 420

ggcatgcaaa atgggtagag tacctagatc aatttccata tgttataaaa tacaaaaaag 480

gaaaaacaaa tgtggtagct gatgccctct ctaggaggca cacattgttt ttctccttgg 540

gaactcaaat tttaggattt gataaca 567

<210> 5021
<211> 523
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5021

agcttctcca cttgtaactt gggcctaaat tcaaatagca tggttaacac ttgttgaaga 60

gcttccttgg ccttctttga tctagccctt ggcataggtc ctccaagtcc ttctaaaggt 120

tccttgccct tagtccttgc atgtcctcat cacatgtgga aaaaaatgtg tgtgatagtg 180

taatcagcat gcttcttaac attaaaggta agacaaagga tgatttgaat actcgtcaag 240

atctagctga gatgggtata cgtgaccaat tacatccaat gttttaatta aataaagagt 300

cttgttaacc agtgccttta acgtattggt taaggaatta aaaaagaaat gtatttatta 360

tgtaaattat aggagagtgt aaaaaaagat catgggcaac acaatttttc acctctcaat 420

aaaaacattc ctattttatg ttttttaacc attaccctta ngacactagt tagcatttaa 480

cttaaataac aatgaaaaca ttaatttcat tatgtgtgag act 523

<210> 5022
<211> 459
<212> DNA
<213> Glycine max

<400> 5022

agcttatgct gctaacatct acagtagacc tccttttttct gagcagcaaa atcacccaca 60

acagaacaat tatgacctct ccagcaacag gtataatccc gggtggagga atcatcccaa 120

ccttagatgg tcgaatcctt cacaatatca gcaacaacaa caacaacctt attttcagaa 180

tgctgctggc ccaagcggac catacgttac tacaccaatc cagcaacaac aacagctaca 240

acatctgcag ctgcagccac cccagaaaca acaaatagtt gaggctcctc cgcaaccttg 300

ccctgaagaa cttatgacgc aaatgactat gcaaaacatg cagttttaac gagagaccag 360

caccttcatt tatagcttaa ctaatcatat gggacaattg gctacacagt taaatcaaca 420

gcagtccgag aattctgact gattactttc tcaatctgt 459

<210> 5023
<211> 538
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5023

tccttaagaa aattcctaaa gaagctagag cttagcaaca cacacatctc taatagctaa 60

gctcacctcc ttgagatgag aagctagagc ttagctacac acccccctata atagctaagc 120

tcacccccat gacaaaaaaa agatgaaaat acaaaaaaaa aagtccttac tacaaagact 180

actcaaaatg ccccgaaata caaggctaaa accctatact actagaatgg ccaaaatаca 240

aggcccaaac gaaggaaaaa cctattctaa tatttacaaa gataagcggg ctcatactta 300

gcccatgggc tcaaaatata ccctaaggct catgagaacc ctagggcctt cccttggatc 360

tctagcccaa tctacttgga gtcttctacc caatgccctt gcgggataag atttcatcat 420

tcccctccacc ttggaaagga tttgacctca aatcccaagg ttcttcatac tctgggctcc 480

ttcccctcaac acctgtaaaa agaaaaaaaa catatgtatt antggtgttt ggtatgtt 538

<210> 5024
<211> 397
<212> DNA
<213> Glycine max

<400> 5024

agcttctcgg tatattatgc acctgaatca tacctccggg tgacaagtta tgaccatttg 60

aatttctcga gagcttccgt tgttcaattt cgagcgtctc gatatcttat gcgcttgaat 120

cggacctccg agtgagaagt tatgaccatt tgaattgctc aagagcttcc actgttcaat 180

ttctagcgtc tcgatatatt atacgcgtga atcggacctc cgagtgaaaa gttgtgacca 240

tttgaatttc tctagagctt cggttgttca aattcaagcg tttcgatatt tgatgtgcgt 300

gaatcagacc tccgagtgag aagttatgac gatttgaata tctcgggagc ttccgttgtt 360

caattgcgag cgtcactata tgtcatgcgc cggattc 397

<210> 5025
<211> 544
<212> DNA
<213> Glycine max

<400> 5025

tactttgaaa tttgtgattc aatatgatgt atgctagttt atatatagag aagtagttat 60

ttatattaat aatttatgta aatagtattg tagagtgtta tagtatgatt ccaaaaatta 120

ttaagtgttg gagtttgaga atattatggt taaatttgat gaacatgtgt atgttgtacc 180

ttacgaatat cattaggaat gttatgagat ggttgatgtg atgttatgag atgttaaagt 240

gtggacatga tatttgattg tgaataagtg gatgtgttta acacttgatg ttacattaat 300

tatattttga gctatgaatt atacaataac tcgaccagtg tttatgcgca gtgttaaaga 360

gaaagtgtag gttcctagtt aggaaccagt gttaaattgt agcgcaatgt gttaaacatg 420

tttgaaacat aagtgtgagg tcgtggtatt gtgtaattca tgagttgtgt ttataaatgg 480

aatatgtgat gaattgtgga ataacatgtt gctttgagat tttaatattg gtattgagat 540

tgag 544

<210> 5026
<211> 507
<212> DNA
<213> Glycine max

<400> 5026

ttaaaatttg aattaaaacg ttcacaaact gttggtaatc gattaccata tatgtgtaat 60

tgattacaca gggcaaattt tgaattcaaa ttttaatagc tgttgtaaat ccgttttggc 120

cactggtaat cgattacatc ctctggtaat cgattaccag agagtaaatt tgttgaagaa 180

gacttttaa cttgtaatcc ttggccaaac cttttgctac ttcaattgga attcccttcc 240

tatttaatat acccttttcta agactctata gactgtcttg atcatccatc ttgaatatct 300

ttaatttctt tgtcttgagt aaatctttga gaagcatatg attcatgtaa tcctttggca 360

tcatcaaaac attcagctta atcctttgtc tacacccacg ttctactatg aaaagctgat 420

tggctacatg ccagctaact ttgcggatct cgtcttcgcc ggagaaagga ttgaatcccg 480

actacaaaaa ggcaagttcg aatatgc 507

<210> 5027
<211> 497
<212> DNA
<213> Glycine max

<400> 5027

tcttagtttc agatgatgca gatgggtttg tagctacctc atgcactcct ctaatgacta 60

tggcatcatt tctggcgcta aactgctggg agttggaggc catcttctca attaaatttc 120

tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180

tctccatatt actgagtcct tcataaaaat gttggagaag aagctgttct gaaatctgat 240

ggtgagggca actggcacat agtttcttaa atcgctccca gtactcatac aggctctctc 300

cactgagttg tctaatacct gagatatctt tcctgatggc tgtggtcctg gaagcaggga 360

aaaaattttc taagaatact ctcttaaggt catcccagct cgtgatggac cttggagcaa 420

ggtaatacaa ccagtccttt gccactccct ctaatgaatg aggaaaagcc ttcagaaata 480

tgtgatcctc ttggaca 497

<210> 5028
<211> 502
<212> DNA
<213> Glycine max

<400> 5028

agcttgtgtc acactttcaa ttgtctaatc tgaatacata gctgcaagaa gttgttgtgc 60

tcaaagtctt tggatgaagc aacaatgatg taagctccat tggagcttgt aagcctagga 120

tcttcttcat caatggattc ctttgcttct tggaagatga atggcagcgg aatggagaaa 180

ggaagagaga gaggagacgc cacttcaagg agaagatgag tctaaaagaa gctcaccacc 240

atatgaggcc atggataaga gcttggatga agaatgagat gaatgaaggg agagggagag 300

aagagcacga aattttgtgc tctacatgag ctctgagatc tgaagtttaa tattcaaatg 360

atcaaagttg aaaaaaatgc acacacatga cctctattta tagcctaagc gtcacacaaa 420

attggaggga aattcagaat taacttgaat ttgaaattga atttgtggag tcaaactatg 480

gacccagaat ttcactaaat at 502

<210> 5029
<211> 614
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5029

tgtgtggaat cgacaagcaa ggacaaaaag gaatcttcaa gtgacgtgac gaggaatccg 60

tggggtagct cactataggt aaggggagtt tattataaaa tttaccattt taacaccata 120

gttaggatta aggaacctag ctatgaggat atctgcctgt ccttgtgcat gctgattttt 180

cttcaaagaa aattacgttt taactaatgg gatgcgatat atatattgtg atgaatgata 240

ttgttttggc tgtttgaagg ctgtgcgtga ggaaatgata ttgttgtgtt tgtttgaatt 300

gttgttgatg ttgctattga ggattttaat tgatatgtga tgataatgat gattatgatg 360

atattgattt gagatgacat tgttaataaa gaccatgtca acatgaattg ttattattga 420

tgaatatgtg aatatgaaat gatgttgttg ttgttgttga taacgtcatt gagatgagat 480

gatatttatg ttgtgaatga catggaaata cgatttgttc attgatgttg gaaatgcatt 540

ggcatgtgca tgttgtgtat gttcgtgggg ggcactgtgc actgaccttt cannggtctt 600

tggcattagc tttt 614

<210> 5030
<211> 595
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5030

agcttgcttc ttgcgattcc aagacacaag atatcttcct aataggtggc atgtaatttg 60

caacctgcac aatcagaatc tctatatctt gactcatcca ctgatttacc tttctcatct 120

aagtcaaggt atgttgaagt ggtcgttgga gtatatggtt ctttgcattt tttatgccaa 180

atttcttaat tagttctata gagtatttgg tttgacatag gaaggttcca tgtttcatct 240

actgcacttg gagtccaagg aagaaattta actcacccat catagacatc tcagattcct 300

tctacataca actagaaaat tccttacaca aaatttcatt actagcgcca aatataatat 360

catcaacata tatttgaaca atgaacaact cactatttac tttcttaata aacaatgttt 420

tgtcaacttg gcctctagtg aaagattgct taattataaa actgtttaat ctatcatacg 480

atgaccttgg tatttgtttc aaaccataca nagccatttt tagtgtatag acatctttag 540

gatgttcata gtccacaaaa cctggggatg acctatatat acttcttttt caatg 595

<210> 5031

<211> 647
<212> DNA
<213> Glycine max

<400> 5031

agcttgtgct tcaagcataa agggaaataa ttaaatatga caccatattc atttttgtgt 60

taaggttgtt tgcatacata tattcataaa ttcttcactg tattcagtgt attgcatatt 120

tgcattgaat acactttaag tttgttaagt atatgtcgaa ctaaatgtat cattgcattg 180

tttgctaaaa aaatgtttga gctaaagtaa ctctcttaaa aagggtttgt tcaacttaat 240

taaataataa atatgataat tgactagtta gataagatac atcaattatg atctagttta 300

ccgcgcactt taaggttaag ctgcgttcgt cctgcttaat ccgcctgata aaacattaca 360

accgaataaa tgacaagcat aggtacatgt tctaattcat ttcaccaaca aaatattgcg 420

ttttttcttc ttattttacg cttcggctaa tgcatttata aaagattaag agattatttt 480

gtttcacaaa acatattttg ttttaagttg atatacgaaa attgaaacac aaaattgaaa 540

cggatataat agaaaattat ttacactatt gtcataagtg tttaaaaaaa agaaataaag 600

tgaaaaaatt gtgacatttt ttaattaaaa agaaaaataa atttttt 647

<210> 5032
<211> 447
<212> DNA
<213> Glycine max

<400> 5032

tccaatttca ttttggagcg tctcgatata ttacgggact ctattgggca tccgagtaaa 60

aagttattgt cgtttgaatt tgatacgagc ttccattttc aatttggagc gtctcgacat 120

attacgggac tcaatcggac atccgagtta aaagttaatg tcgtttgaat ttgatacgag 180

cttccaattt caatttggag cgtctcgata ttacgggga ctctattgga catccgagaa 240

aaaagtcatt gtcgtttgaa tttgatacga gcttcccttt tcaatttgga gcgtctcgat 300

atattacggg actcagtcgg acatccgaga aaaacttatt gtgctttgaa ttttctagga 360

gtttctgttt tcaatttcgc gcgtgtcgat atattatagg actcaatcgg acatccaagt 420

taaaagttat tgcggttttc atttgct 447

<210> 5033

<211> 444
<212> DNA
<213> Glycine max

<400> 5033

agcttgtatc aaattcaaac gacaataagt tttttctcgg atgtccaata gagtcccgta 60

atatatcgag acgctccaaa ttgaaattgg aagctcgtat caaattcaaa cgacattaac 120

ttttgacttg gatgtccgat tgactcccgt aatatatcgt gacgctccaa attgaaaaca 180

gaagctctaa gacaattcaa acgacaataa ctttttattc ggatgttcga ttgagtcccg 240

taatatatcg agatgctcca tattgaaaac ggaagctcgt atcatatgca aaccacaata 300

acttttact cggatgtccg attgagtccc ataatatatc gagacgctcc aaattgaaaa 360

cggatgctcg tatcaaattg aaaccgcaat aacttttaac tcggatgtct gattgagtcc 420

cgtaatatat cgagacgctc caaa 444

<210> 5034
<211> 479
<212> DNA
<213> Glycine max

<400> 5034

agcttatgac catttcaatt tctcgagagc tttcgttgtt caatttcgag cgtctcgata 60

tgtgatgttc ctgaatcaaa ccttcgtgtg ataacttatg accatttgaa tttctcgaga 120

gcttccgttg tacaatttcg agcatctcaa tatatgatgt gcctgaatcg gacatccgag 180

tgaaaagtta tgacaatttc aatttctcaa gagctttcgt ggttcaattt cgggcgtctc 240

catatgtgat gtgcttgaat cggacatccg agtggaaagt tatgactatt ttaatttctc 300

gagagcttcc gttgttcaat ttcgagagtc tcgatatata atgcccctga atcggacctc 360

cgtgtgaaaa gttatgacca tttgaatttc tcgagagcga ccgtttttta atttctagcg 420

gtctgatatt tgatgtgcct gaaacggaca ttccagtgaa aagtttgacc attttaact 479

<210> 5035
<211> 513
<212> DNA
<213> Glycine max

<400> 5035

agcttgcaga ccagggattt atctgcaact tcaaaactag gaggctgagt cataaataca 60

tatccctcaa gcaacccatt aagaaaagca ttgttgacat caaactgaaa taactcccac 120

ccttgagaaa gagcaagagt gagaataaca caaattgtga caggcttgac cacaggaaaa 180

aatgtctcat gaaaatcaaa tccatgaacc taatgaaaca aacccccttag caaccagttt 240

ggctttgaac ttgttgatag aaccatcaac attttctttt actctgaaaa gccatttgca 300

cccaatagct tgcctattag gaggtagggg aaccaagtcc cgagttctgt tttacagtaa 360

agcatcatac tcctcttgca tagctgtaga ccaatctgaa ttttccaggg cctctttgac 420

agtcttgggt tcaaaatgag caaggaacag tgaaggatgt aggctaggat tatgaattcc 480

agacttggac ctaatttgca taggatgagt gtt 513

<210> 5036
<211> 433
<212> DNA
<213> Glycine max

<400> 5036

tatcgtcatt ggaaagagat cattaaaatc accaaatatg caccaagcac caatagagga 60

atgagctaaa gatcacaaaa gattccatga acctttttctc ttatctctct tttggaatcc 120

atagtaaact attaacttcg agacaatttt gacaagatgg attttcatgt tgataaaatt 180

aaaatagtag tttaagagac aacaattaaa gggggttttc caaaacatag tcagcccacc 240

actccggcct ttagcatcaa caaaaaaaaa agcataaatc aaaaccaatt tgaatacaaa 300

tatcatcaat atgctaagag taaacacgag tttcacataa taaaatgata ttccaatgag 360

atcttttagg gtaggaattg tgctcgggtt gcccaagccc tgacagtttc aactttgaga 420

ctaatcttcc ctg 433

<210> 5037
<211> 694
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5037

ttgagccaaa atcctgactc accataaacc ttgacccagg gtgagaatgt caatccttac 60

cttcggaagc gaaaagaata gaagggaaat ttccaatcaa agaaaaggaa agaaggaaga 120

tttccaatca aagagaaagc aaaaaaagaa aagaaggaaa attcccaatc aaagagtggg 180

agaaagcaaa aagaaaagaa agaaaattcc caatcaaaga atgggagaaa gaaaaaagag 240

aaaaggagga aagaaagctc ctgatcaagg atcgaaagaa aacagaagaa atgtgcagag 300

aagtctttgg accggacaat atctgaacaa tacagaattg tcaccaaatg aacaaaaagg 360

gaaggaaagg aaaccacgac ctaaaatggt cttctccctt tgattaccaa ccaaaatccc 420

gtgcgctagc gacttttttt tctcgccccg cactaaacaa aaaaaaaaca gaaaaagaaa 480

aagccagaaa aatcaaaagc caaaaacaca caaaagccga aaaaaaaaac caccaaaaga 540

acccattccc aagggaagcc ctattgatcc ataatcgcgc atgtaatttt tgatttgata 600

ggaaataatt ngcaaagtca agtcatgaca tatctatggt tcggaattag gatgaaacac 660

ttacctgtgc aagattgata cactttgagt gatt 694

<210> 5038
<211> 347
<212> DNA
<213> Glycine max

<400> 5038

ttggagtgtc caagcgccgc tccttcctca cccttaatgc atttttcttc aggcttcatt 60

tcatcaatgg gcattccttc tgtattccgc atcttgggat gtccccagcc attgacgaca 120

cacttccagg ttctgatatc ctaggccatc gcgaaggcca ccatactcag ctctccaata 180

tccacactat gtgtcatgaa gagacggaag tctgcacact gagcctacgt ctttatccat 240

gtttatcaga atatatctcc ccacacctca ctctgagaat acaaagaagg ctcttaaacc 300

aataggaacc ctgataccaa agtacatatg tagttcagaa cgacaca 347

<210> 5039
<211> 387
<212> DNA
<213> Glycine max

<400> 5039

agcttttctt tgaccgaagc taaggctgaa tcttgttttt caccctatac acatgccatg 60

ttcttcttca cccactatta gaaaggtgac gcatttgaat aaaagatagg aactaacctt 120

atatataagc ttgctaacca atggaagctc ctaatatctc cgacacatta ttgggtgctc 180

cattctagaa tagtcgtgat tgtctcatgg tgcacttcga ccccatttct accaactcct 240

aaacctcaga gaactatatt atctactcac aatgtacact tctctatata tgcatagagg 300

gagttttctc tattgactga aacaacttgc ctgagatgta ctcattgatc atataagctc 360

atatggccca ctaaaatatc ttaaaaa 387

<210> 5040
<211> 570
<212> DNA
<213> Glycine max

<400> 5040

atactcaagc tttgagccac ttcaaacgac attaactttt tactcggatg tcttattgag 60

tcccttaata tattgagacg cttgaaattt tatgttgaag ctcttagcca attcaaacga 120

caataacttt ttactcggat gtccgattca gtgacgtaat atatcgggac actcgaaatt 180

gaatgttgaa actttgagcc aattcaaacg atgtctgatt gagtcccgaa atgtatcaag 240

acgctcgaaa ttgaatgttg atgctttgag caaattcaaa agacaaaagc tttttactag 300

gatgtttgat tgagtcccgt aatatatcca gccgctcgaa attgaatgtt gaagctttga 360

gcaaattcaa acgactatat ttttttactc ggatgtctga ttgagtcccg taatatatcg 420

agacgctcga aattgaatgt tgaacctctg agccaattca aacgacaata acttttttact 480

cggatgtctg attgagtccc gcaatatatc gagatgcttg gaattgaatg ttgaagcttt 540

gagacaattc agacgacaat aacttttttac 570

<210> 5041
<211> 491
<212> DNA
<213> Glycine max

<400> 5041

agcttcaaaa ttcactttcg agcgtctcga tatattacgg gactcaatta gacatccgag 60

taaaaagtta ttgtcgttgg aattggctca gagcttcaat attcaattac gagtgtctcg 120

atatattacg ggactcaatc agacgtccga gtaaaaagtt attgtcgttg gaatttgctc 180

atagcttcgg cattcaattt tgagcgtctc tatatattac aggactcaat aagacatccg 240

actagaaagt tattgtcgtt taaatttgct caaagcttca acattcaact tcgagcgtct 300

tattatatta taggactcaa tcagacttcc gagtaaaaag ttattttcgt ttgaatttgc 360

tcaaagcttc aacattcaac ttcgagcgtc tcgttatatt ataggactca attagacatt 420

cgagtaaaaa cttattgtcg tttgaatttg ctcagagctt caacatcaat ttcgagcgtc 480

tctatatatt a 491

<210> 5042
<211> 651
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5042

tggaacatat atactgaatc ctagttcctc ttaaggactt atttagaata tttgccggtt 60

ggtcattaga attaatgaac tcagtgataa tctccttgga caatagtttc tctcgaatga 120

aatgacaatc aatctctgtg tttagtcctc ttatgaaaga ctgaatttga ggcaatgtga 180

agagctgcct gattatcaca gtataacttc atttgcacaa cttcacaaaa tcccaactct 240

tggagaaatt gtttaatcca cataagttcg catgtaacca tagtcataga tcgatattca 300

gcctctgcac tggatcgagc aacaatagtt tgtttcttgt tcttccaaga gataatattt 360

cctccaataa aaacacaata tcctgaggta gatcttctgt ctatgggaca accagtccaa 420

tctgcatcac aatatccaga gacttgagtg ttacccttgt tttcatacaa caatccttgt 480

cctagagcct tctttacata tctgagaata cgcatgacga cattccaatg atcaacatga 540

ggattntgca taaattggtt aacaacccca acaacaaaag aaatattang tcttgtaatg 600

taagataagt gagttttccc acaagtctct tatatctctc gggtttgatc t 651

<210> 5043
<211> 451
<212> DNA
<213> Glycine max

<400> 5043

agcttggctg aaatggtact tggctgtttc atctttatct cttaattact atctaatcat 60

tatttgatta gatagtaatt agtgatttag tccttattac acattatttg attgatacta 120

tgtaatgaat actgatccca tttactcgtt ataaataaag gcttggtgtg gccatccaag 180

acacaacatt acagaaaaac actgttatag gtagcataaa ataaagactt ttgaggggta 240

ctaaggacta actcaaggtg ttgtaagtgc tcttgccatg tcttgctata tataagtgtg 300

ttataaaaaa acaccaaaac aaatgtacta agatacagct gcaagcgtga gttcattgta 360

cattgaaatg tggcaaagac attggttata gcccaaaagg aataaccaag aactcaacaa 420

caagttccga atgagcttca ttcccaacac a 451

<210> 5044
<211> 529
<212> DNA
<213> Glycine max

<400> 5044

tatcactgcc tcacgaatgc ccaccctggt ctaaatggta cgtgatagaa catgcataat 60

cacatagaag gtggtttcta gtagaagaaa aaatgtaatc caagtaagtg caattggttt 120

atctggagct acagaggggt ggcactgaat catgcagact gccttctgtt atagcgatta 180

attgaagttt tctttcatgc cctgaacgtg aaatacagtg ggtcttataa tacttttata 240

atattatgcc atgtgagtat aatgacaacc ttttcatatc ctttcagtgg tttcggtcat 300

gtcatttaaa gttttatttg aaaagaaaat ttataaaatt gtttttatag agaaggaact 360

atattggaat tatacattaa tgtgggattt tgttaattac caaagatgaa atctatggag 420

tttgtaattc taaattatat ggtttattga tataacgatg ctatgaaata tttatatttg 480

gatttaataa aactgttaat tataagatat atatatatat atgaattat 529

<210> 5045
<211> 470
<212> DNA
<213> Glycine max

<400> 5045

agcttatcga tgttgggcaa gggatatgcg ttcttggggc atgacttgtt aaggtaggtg 60

tagtcagtgc acatatgcca tttgccattg gccttttcta ccatgacaat gttggctagc 120

caagttgaat atctgacctt ctaataaact aagccttgag taacttgtca atctcttgtc 180

tgaccacctt ttgtcgctct tctcccatct ttttttttc ttttgtgaga ctagtttggt 240

cagaggatag atggccaatt tgtggcatat gatgctagca tgcatacttg gcatattaga 300

caactgtcat gcaaatagat ttgtgtttct tcgtaagact tctgctacat gtttgtactt 360

gtcgctaatg aagtccttgc tgagctaaat acactaccca ggtttgggtc caagtgtaac 420

ttgacaagct ctttgattgt tttgggcctt tataaatatg tcatcacgca 470

<210> 5046
<211> 470
<212> DNA
<213> Glycine max

<400> 5046

agcttgtcaa tgttgggcaa gggatatctg atgtaagctc cattggagct tggaggccta 60

agatcttctt catcaatgga ttcctttgct tcttggaaga tgaatggcag cggaatggag 120

aacgaagaga gaggagacgc cacttcaagg agaagatgag tctagaagaa gctcaccacc 180

atagaaggcc atggataaga gcttggagga agaaggatat gaatgaaggg agaggaagag 240

aacagcataa aattttgtgc tctaaaagag ctctgaaatc tgaaatttaa ttttcaaatg 300

atcaaagttc caaaaaatgc acacacatga cctcttttta tagcctaagt gtcatacaaa 360

attggaggga aatttgaatt tctattgaaa ctttacttga atttgaaatt ggatttgtgg 420

agccaaattt tggagccaaa atttcactga ttatgattag ggaatttagc 470

<210> 5047
<211> 511
<212> DNA
<213> Glycine max

<400> 5047

tcaggttgct cattgactcc agattgctgc aaagaaggac agagatctgt atggtgatct 60

acagaagaac atagaccata gactcttgca acaggtgcag atgcagattt ttgattcatg 120

gcaagctgag ttactaggta gaccaaggca tcaagttttc cctcaagctt ttttattttc 180

agtagatgaa gatgaatcta tggccacctc atggactcct ctaaggacaa tagcatcatt 240

tcttgcggcc tcagttgctt gttgtctttg ttgttgctgc tgctgtattg gaggaggaac 300

atatggcttg cttggaccag tagcattctg gaagggaggg acaagctgat gttgttgtgg 360

aggacttgtc catctcagat ttggatgatt cctccaacct ggattgtatt tgttgcttga 420

aaggttataa ttattttgtt gttggtggtt tttctgctga ggggatctat tataaatgtt 480

tgcagcatga gcttcaggtt gctcattgac t 511

<210> 5048
<211> 575
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5048

ttgagcaaat tgaaatgaca ataactntat acacggatgt tcggttgagt cccgtaatat 60

atcgagacgc tcaaaattta gatccgaagc tctgagaaaa ttgaattgac aataacttta 120

tacacggatg tccggttgag tcctgtaata tatcgagacg ctccaaattg aaaacggaaa 180

ctcttagaaa attcaaacga caataacttt ttactcggat gcccgacaga gtgtcgtaat 240

ttatcgaggg atgctccaaa ttgaaaacga acgctcgtat catattcaaa cgacaataac 300

tgtatactcg gatatctgat tgagtcccgt aatatatcga gacgctcaaa ttttagatcc 360

gaagctctga gaaaattgaa ttgacaataa ctttatacac ggatgtccgg ttgagtcctg 420

taatatatcg agacgctcca aattgaaaac ggaagctcgt agaaattcaa acgacaataa 480

cttttacttc gatgtccgaa tgaatccgca atatattgag acgcttcaaa ttgagactag 540

aagctctgag caaattgaaa tgaccataac ttttt 575

<210> 5049
<211> 493
<212> DNA
<213> Glycine max

<400> 5049

agcttttgtt ttcaatttcg accatctcga tatattacca gactcatccg gacttccgta 60

tataaactta ttgtcaatta aattttctca gagctttgga tcaaaatttt gagcgtctcg 120

atatattacg ggattcattc agacatccga gtaaaaaatt attggcgtta gaatttgata 180

cgagcttccg ttttcaattt ggagcatctc tcgctaaatt gcgataggct atcgggcatc 240

cgagaaaaaa gttattgacg tttcatattt ctaagagttt ccgttttcaa tttggagtgt 300

ctcaatatat tacgggactc atccggacat ccgtgtataa agttattgac attttaattt 360

gcgcaaagct tctagtctca attttgagcg tttcaatata ttacccgatt caatcggaca 420

tgctagtaaa aagtaattgt ccgttggaat ttctacgagc ttccgttttc aatttggagc 480

ggattgacat ttt 493

<210> 5050
<211> 550
<212> DNA
<213> Glycine max

<400> 5050

agcttgtagg ttaagtgaca gtgattgtac tggagatgaa gatgatcgga aaagtactag 60

tggatttgtg tttttcatgg gggaacacaa ccttcacttg gatgtcaaaa aattagtcga 120

tagtcactct ttcaacttgt gaggcacaat acatagcaac tacttcatac atttgtcatg 180

cactctggct taggaatttg ttaaaaaagt tgggcatgtc acaagaatag ccgaccaaga 240

tctttgttga tagtaagtca gccattgttc ttgcaaagac tccactgttc catgatcgaa 300

gcaaacatat tgatacatgt taccactaca taagggagtg catatcaaga aaggatgtac 360

atgcacaata tgtgaagtct caagaccaag tagctgacat cttcaccaag ctgctcgagt 420

aagaagactt aatcaagtta agaagcttac ttggaatggt aaatcaagtt taaggggggg 480

gtgttgaata atataaactt gatttatccc attaatcatg tgttaagtcc cataagtttg 540

tgctactact 550

<210> 5051
<211> 434
<212> DNA
<213> Glycine max

<400> 5051

tcaaacttgc aacaaaggag ttgagcaggt aaaaaagatt cgtcttcaaa ctcttagagg 60

tgactttgaa cgtttgttta tggaggagtc cgagtcaatt tctaattatt tttctcgagt 120

attggtcgta gtcaatcaac ttaaaagaaa tggtgaagat gttgatgagg tgaaggtcat 180

ggaaaaaata cttcgaactt taaatccaag ttttgacttc attgttacca acattgaaga 240

aaacaaggat ttaaagacca tgactattga gcaactcatg ggttccttac aagcatacga 300

agaacaacaa aagagaaaaa ttctacaaaa ggaggctacg gagcaactac tacaactcaa 360

catatatgaa gcaaactatg catattacaa cagccaaaga ggacgaggtc gcggccaaca 420

tcgtggacgt ggac 434

<210> 5052
<211> 671
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5052

ttgagccaaa atcctgactc accataaacc ttgacccagt gtgagaatgt caatccttac 60

cctcggaagc aaaaaaagaa tagaggggaa atttccaatc aaagaaaaag agaaggaaaa 120

tttccaatga aagcaaaaaa agaaaagaag gaaaattccc caatcaaaga gtgggagaaa 180

gcaaaaagaa aagaaaggaa aattcccaat caaagaatgg gagaaagtaa aaaaaggaag 240

aagaagaagg aaagaaagct cctgatcaag gatcgaaaga aaacagaaga aatgtgcaga 300

gaggtctttg gaccggacaa tatctgaaca atacagaatt gccaccaaat gaacgaaaaa 360

agaaggaaag ggaaccacga cctaaaatag tcttctccct ttgattacca accaaaatcc 420

cgtgcgctag cgacccttt tttctcgccc cgcactaaac aaaaaaaaca gaaaaagaaa 480

aagccaggaa aatcaaaagc caaaaacaca caaaagccga aagaagagac caccataaga 540

acccattccc aagggaagcc ctattgatcc atgatcacgc atgtaattnt tgatttgata 600

ggaaataatt tgcaaagtca agtcatgaca tatctatggg ttcgaattan gatgaaacac 660

ttacctgtgc g 671

<210> 5053
<211> 442
<212> DNA
<213> Glycine max

<400> 5053

ggagaaccaa gccaatcgga atgctatact atttatatat gggaatatag gtaacaatgg 60

cggttatgac ggaccgaggc ataaccgggt tgagggagta aagctcaatg ttcctccctt 120

caaaggtata agtgatccag atgcctacct gtactgggaa atgaagactg agcacgtatt 180

tgcctgcaat gactacactg atgcgcataa agtcaagcta gcagcagctg aattctccga 240

ctatgccctt gtttggtggc ataaatacca aatagaaatg ttgagagagg aacggcgaga 300

ggtatataca tggactgaga tgaaaagggt gatgagaaaa aggtatgtgc ccactatcta 360

taacaaaacc atgcgacaga aacttcaaag gctgtcccaa gggaatttaa ccgtggaatg 420

attttaataa agaaatggaa at 442

<210> 5054
<211> 492
<212> DNA
<213> Glycine max

<400> 5054

ttcaagaaat tcaaatggtc ataggttatc acacggaggt cctattcagg aacatcaact 60

atttagccga tcaaaattaa acgacggaag ctctcgagaa attgaaattg tcataacttt 120

tcacacggag gtccgattca ggcacatcac atatggagac gcccgaaatt gaaccacgga 180

agatctcgag aaattcaaat ggtcataact tttcacacgg aggtccgatt caggcgcatc 240

atatatcgag acggtcgaaa ttgaactacg gaagctctcg agatattaaa atggtcataa 300

cttttcactc ggatgtccga ttcaagcaca ttacatatgg agacgcccga attgaccca 360

ccgaagatct cgagaaattc aaatggtcat agcttttaca cggaggtccg attcaggcgc 420

atcatatatc gagacgctcg aaattgaaca acggaagatc ttgagaaatt gaaattgtct 480

taacttttca ct 492

<210> 5055
<211> 582
<212> DNA
<213> Glycine max

<400> 5055

tgttgtcctc attagtggac gcctctatta aacaagtggc ctcaataact taagaggagg 60

gaggggggtg aattaagttt aaaaatttct ccctaatcaa attttaattc tctcttgaaa 120

tagaatatgc acacttaata tgaatgaagt aaagagctat tcaaatgata cttctttaaa 180

ataagcaaag caaaaataaa atgtaataaa ttaaagaagt ttagggaaga gagaaatgca 240

aactcagttt ttatactggt tcggccacgc cctatgccta cgtccagtcc tcaagcaacc 300

tgcttgagat tttcactaac ttgtaaattc cttttacaaa ttctgaaccc cacatggata 360

ccctttttctt gtgttcagag atccttacaa atcaagatac ccactgtctc ttgaacaaca 420

gttgtttgct ttaaagtaag aagaatattt ctctcttgta gagaagaatg ttacaagatg 480

aagatcttat tagaattctt attgattttg caagtgtttg accaatgctt tcttttgaga 540

agaaaaaaca attattgttc tgaaaaactt tcgagaaatt tg 582

<210> 5056
<211> 621
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5056

tcttgcagag gctgaagaat cagctctcgg tgaaatcctt tttatgattt cgttctgttt 60

taggtcgaag aagttggttg aactgatgaa gatgtgtaga gatctgaggc acaaggtccc 120

agagatattg gaggtggagg tggatccaaa gggagcacca aggattcaag aggcgataat 180

gaagctctac gtttcaaaga gcgcgttcga gaagattcac ttgttgcagg caatgcatct 240

tagaatttcc tctctataaa cataatttag aattccaaaa ttttagttaa ttaaaaatta 300

tctattaaaa tactgaaatt tcaaatttca gtgaacaaga catccaaaag aaaattttag 360

acttagaaat tttaaatcct ctaaaaaatt actttctttg ctttaaatac tccatccaaa 420

cagattctga agagaaaaaa aacattttct taaagtatct tttgtttgaa attaatttta 480

aaaataaaaa agaataatta aaaatagaat ttcaattaat tgaaatatat ttttaaaata 540

atatcattaa atagggtgaa aaatggttaa atttatttat atttaagttt aanaattact 600

tttggtttat ttaagtcaag a 621

<210> 5057
<211> 465
<212> DNA
<213> Glycine max

<400> 5057

agcttcaaca tcagaccact tccagggtgc tggaactact tcacatggac ttgatggggc 60

ctatgcaggt tgaaagcctt ggaggaaaga ggtatgccta tgttgttgtg gatgatttct 120

tcagatttac ctgggtcaac tttatcagag agaaatcaga aacctttgga gtattcaaag 180

agttgagtct aagacttcaa agagaaaagg attgtgtcat caagagaatc aggagtgacc 240

atgacagaga atttgaaaac agcaggttca ctgaattctg cacatctgaa ggcatcactc 300

atgagttctc tgcagccatt acaccacaac agaatggcat aattgaaagg aaaaacagga 360

ctctgcaaga ggctgctagg gtcatgcttc atgccaaaga actttcctat aatctctggg 420

ctgaagccat gaacacagca tgctacatcc acaacagagt cacac 465

<210> 5058
<211> 492
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5058

tgtaatcgat tacacacata ctgtaatcga ttaccagagg agtttttcaa aaaacattct 60

caacagtcac atctttttat ctgattctta agtggccatc aaaagcttat atatatgtga 120

ctagagacac gaatttaaca agagttttta agaacaaaaa ggtcttatcc tcttaaaaag 180

caaaatcatt ttaccctctt acaaattcct tggccaaaac tcttgtgatt caataaggaa 240

ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tcttttcttc 300

ttcttcattc tgaaaaggga ttaagagacc gagggtctct tgttgtgaaa gaattctaaa 360

cacaaaggaa gggttgtcct tgtgtgttta gaacttgtaa aaggaattta caagatagtg 420

gaactctcaa gcgggttgct tggggactgg acgtangcac aagggtgtgg ctgaaccagt 480

ataaatctga gt 492

<210> 5059
<211> 446
<212> DNA
<213> Glycine max

<400> 5059

tcacaaaatt cttattcaat gcaattccag cctttgcatt taaaatactt gatctagaac 60

aataatttaa aaaaaaggtt aacagaccaa tcactaacaa gaaaatgaat aatgtcaagt 120

tgtcaactta aaaaaggcaa ttgtgttcaa taactttaca gctgttaaca taatttatac 180

ctgttatcac caacaaagtc ggtggagacc acatcatctt cagtgtaacc aagaattccc 240

ttcaacttgc cctctgattc ctcccctgaga aagacaacat tatataagac aatacaattg 300

agaaggacca atcccaaaat ggaggccttt attaataaca agtaatgaaa atttgcttta 360

agacccaata atacacaaca tatatcatta gaggagaatc aaagaattct gtcattactt 420

gatagcattt ttaatttcat catatg 446

<210> 5060
<211> 441
<212> DNA
<213> Glycine max

<400> 5060

taaacattca atttcgagcg tctcgatata ttacgggact catatcttac atccgagtaa 60

aaatttattg tcgtttgaat tggctcagag gttcaacatt caattttgag cgtctcgata 120

tattacggga ctcaataaga catccgagta aaaagttatt gtcgtttgaa ttagctcaga 180

gctttaacat tcaatttcga gcgtctcgat atattacggg actcaatcag acatccgagt 240

aaaaagatat tgtcttttga attggctcac aggttcaaca ttcaatttcg agcgtctcga 300

tatattatgg gactcaatca gacatgcgag taaaaagtta atgccggttg aattggctca 360

taagttcaac attgaatttc gagcgtctcg atatattacg ggactcaatc agacatccca 420

gtaaaaagtt attgtccttt g 441

<210> 5061
<211> 407
<212> DNA
<213> Glycine max

<400> 5061

agctttgagc aaattcaaac gacaataacc ttttactctg atgtctgatt gagtcccgta 60

atatatcgag acgctcgaaa ttgaatgttg aagctcagag caaattcaaa cgaccataac 120

ttttttctcg gatgtttgat tgagtcccgt aatatatcga gacgctggaa attgaatgtt 180

taagctatga gcaaattcaa acgacaataa ctttttattc ggatgtctga ttgagtccag 240

taatatatcg agacgctcga aattgaatgt tgaaactttg agcgcattca aacgacaata 300

actttgtact cggatgtctg attgaatgac gtaatatatc gagacgctct aaattgaatg 360

ttgaacctct gagccaattc aaacgaccaa aacttttac tcggatg 407

<210> 5062
<211> 521
<212> DNA
<213> Glycine max

<400> 5062

agctttgaat gcactattca atggagttga caagaacatc ttcagactga tcaacacttg 60

cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120

gaagatgtcc agattgcaac tcttggctac aaaattcgaa aatctgaaga tgaaggagga 180

agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240

gggagagagg ataacagatg aaaagctggt gagaaagatc ctcagatcct tgcctaagag 300

atttgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagttga 360

tgaactcatt ggttctcttc aaacctttga gctaggactc tcggataggg ctgaaaagaa 420

gagcaagaat ctagctttcg tgtccaatga tgaaggagaa gaagatgagt ttgacctgga 480

tactgatgaa agtctgacaa atgcagttgt gcttcttgga a 521

<210> 5063
<211> 619
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5063

tatctgtaaa atcttctagt cctccatata tgtgtgcttt ctctcctcat atgtattgct 60

taaattaagg gatttatttt atgcattatg ctctatatta aaccttcttc aagattcatt 120

tgcatttatc aatattcatt atgcttacta cctctggact gatataaaca accaaaaaaa 180

tgactgacgt aaatataaac aaatttaact acttttgccc tattataatg atatcatacc 240

aaaaatаccc ttcaattaaa agatatcata ttttcaatga ctccttttta ttcttgattc 300

aagttccaat gaaggagact ttatgaaaaa catttttta aatgtgatta gtaggattaa 360

attatgttaa ctaaatggtg tgaagttagt taatttttct tgtatttcag tcccgaggga 420

atattattta ctgtgtagca cgaattcctt tntaacccaa ggttgtcaat tttaagagag 480

tatgtataag cgcaaccttt taggagctta gcgcatatcc ttgcggcaga tgttcaactt 540

agcgggcact ttccagcana gtcaattctg cagaagctga atttctgtaa cttccgctta 600

gtggctccac atatctcta 619

<210> 5064
<211> 528

<212> DNA
<213> Glycine max

<400> 5064

gcaagctttg aatgctgtat ataatggagt tgactataat atcttcagac tgatcaacac 60

atgcgcagtg gccaaagatg catgggagat cctgaagacc actcatgaag gaacctccaa 120

agtgaccatg tccagattgc aactcttggc tacaaaattc gaaaatctga aaatgaagga 180

ggaagaatgt attcatgact tccacatgaa cattcttgaa attgccaatg cttgcactgc 240

cttgggagag agaatgacag atgaaaagct ggtgagaaag atcctcagat ccttgcctaa 300

gagatttgac atgaaagtca ctgcaataga ggaggcccaa gacatttgca gcatgagagt 360

aaatgaactc attggttccc ttcaaacctt tgagctagga ctctcggata gggctgaaaa 420

gaagagcaag aatttggctt tcgtgtccca tgatgaacga taagaatatg agtatgacct 480

ggacactgat gaaagtctga ctaacgcagt ttggcttctt ggaaaaca 528

<210> 5065
<211> 504
<212> DNA
<213> Glycine max

<400> 5065

agcttgtgcc tcttcacgtc tggaatatga atgtagcata tagatccaaa gacccttagg 60

tgctttgctg atggcttcct cccgttccaa gcttcaattg gagtcttgtc ttttacagac 120

ttagttggac atctgttgag tatgtaaaca gcagtgtaga ctgctttagc ccagaatgtg 180

ttaggtactt gagcatcgat ctagccatct ccataactgt gcgattcttt ctctcggaca 240

ctccattttg ttgaggagga tatgcgactg taagttgtcg ctcaattcct tcatcctcac 300

aaaatctttc aaactcgcga gaggtgtact ctttgtcgcg atcacttctt agtactttta 360

tccgttttcc actttgattt tcagcaaggg ccttgaactt tttgatactc caaatacttc 420

tgatttttct tttagaaaat atacccatgt cattctagag aagtcatcaa tgaagagtat 480

gaagtacctg gttgttccat gtga 504

<210> 5066
<211> 576
<212> DNA
<213> Glycine max

<400> 5066

tgaaccttga ggaagaaatt tcagtgtcac atgcatgtca ttgaaacgtt gatttggcac 60

caaatgaccc tatgctttct ttagtgggag ggaagttcca tgcatgtggc attaagagct 120

atgaccgtgg agttatttgt tggggattta tcatcaaacc aagttcacca tctcctaaag 180

ggattaaggt ttttgaagtt gctgctggtg attactttac ttgtgcagtt cttgctgaca 240

aatctcttat gcctttatgt tggggtgttg gctttcccac ttctcttcct ttagctgttt 300

caccaggaat gtgccaacct tctccatgtg ctcctggctc ctatgcaatt gataagcata 360

agagtctttg caagtcaccg gattctcgtg tttgcatgaa gtgcagtggt gcttgtcctc 420

ctgaaatgta tctgaagagt gcatgcaatt ttgcatatga tagaatgtgt gaatataact 480

gttcctcttg ttcttcatct gaatgcttct tgaactgctc ctcttcatat tccaatgctg 540

ctgcttctac tgagaaaaaa agtgaaaaaa ttgggc 576

<210> 5067
<211> 559
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5067

tcaacatcag accacttcca gggtgctgga actacttcac atggatttga tggggcctat 60

gcaggttgaa agccttggag gaaagaggta tgcctatgtt gtgttggatg atttctccag 120

atttacctgn gtcaacttta tcagagagaa atcagaaacc tttgaagtat tcaaagagtt 180

gagtctaaga cttcaaagag aaaaagactg tgtcatcaag agaatcagga gtgaccatgg 240

cagagaattt gaaaacagca ggttcactga attctgcaca tctgaaggca tcactcatga 300

gttctctgca gccattacac cacaacagaa tgggatagtt gagaggaaaa acaggacttt 360

gcaagaggct gctagggtca tgcttcatgc caaagaactt ccctataatc tctgggctga 420

agccatgaac acagcatgct acatccacaa cagagtcaca cttagaagag gcactccaac 480

cacactgtat gaaatctgga nagggaggaa gccaactgtc aagcacttcc acatctttgg 540

aagtccatgt tacatcttg 559

<210> 5068

<211> 247
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5068

tctatacctg ttgcaagagn ttgtggtcta cgttcttctg cagatcacca tacagatctc 60

tgtccttctt tgtagcaatc tggagtcaat gagaaacctg aagcttatgc tgtaaacatt 120

tataatagac ctcctcagca acanaactaa caacagcaga ataattatga cctttcaagc 180

aatagatgca atctaggttg gaggaatcat ccaaatctga gatggacaag tnctccgcaa 240

caacaac 247

<210> 5069
<211> 250
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5069

ccttcacccg acgaagacac tgacananac ttatcttctc cttcttggac aaagtatggc 60

aggctgnggg gcaagtaaat ttcttcccat cagaccttgg atgcaactat gatcgtatac 120

ccatatcagc tacatcttga cnggtattca agccatcctt tgtcttgcct ttgaatgtaa 180

ggaacgtccc aatgacacta tcacagacat tnttctccac atgcataaca tcaatacaat 240

gtctaacgtc 250

<210> 5070
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5070

tctataaatc tataaagttc tntcaaatat tttataattt taaaatatat atccattaaa 60

atccanacct aaaaatctta atcctaaaag tcnttttaaa aatctaataa gtcaaaatat 120

ttctacataa tcttttaata tctaaaagac tnnttttata ctanaatagt cttttaaaat 180

cctatacccc ttttatattc cttcanagtt ttttaanatt cataaaattt taataaaaca 240

ttaaaataat attttanaat catatggaat acattatgat aaaataaata accatgatac 300

acgaaccatt acacagtaac atccacccat gagccaccta cctatgtgga catttttaaa 360

tcattcaatt agttttt 377

<210> 5071
<211> 236
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5071

caccatcaat aagtatacat cgttcataag ggtccaccac ttgaaagagg gctngcacca 60

gcgtagaatt tccattctct gtcctgtcta ctataccaat tgtcttttgt cctgcgaaga 120

tacaagtaac atctttgagg accatangag cagcagggtc attctgtata tgaagggtat 180

gaagttcaac tnttccctcc tttggccact ctggttcatg cctgcaatct tgaatg 236

<210> 5072
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5072

actcggatgt ccgatgagtc tctgttatat atcgacacgc tcganatnga atgttgaagc 60

tctaggccta ttcaaacaac aataacgtnt tactcggatg tccgattcag tgacgtaata 120

tatcgggacg ctcganattg aatgttgaac ctctgagcca actcanacga caataactnn 180

ttactcggat gtctgattga gtcccgtatt atatcgagac gctcgaaatt gaatgttgaa 240

cctctgagcc aattcaaacg acaataactn tntactcgga tgtctgattg agacccataa 300

tatatcgaga cgctcgaaat tgaatgtnga acctctcagc caattcaaac tacaantaac 360

ttttactcgg atgtccgatc agtgacgaat atatc 395

<210> 5073
<211> 240
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5073

tgtccgattc ggggacataa ctcatctaga cgctcgaaat tgaacaacgc aagctctcga 60

gaaattcgaa tggtcataac atttcgcaca aatgtccaat tctgggacat aatatatcaa 120

gacgctcgan actgaatagc ggaagctctc gggaaaatca gatggtcatn aactttcaca 180

tggatgntcc gattgtgaaa ataatatatc gagatgctcc aaatcgaaca acgaaagcta 240

<210> 5074
<211> 307
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5074

gcgatccttg agtcacctgc ngcatgcaag cttgtaatcg attacacata tactgtaatc 60

gattgccaga gcatattttc agaanatatt ctcaacagtc acatcttttt atatggctct 120

tgaatggcta tcaaaggcct atatatatgt gacttgagac acgaatttgc taagagttnt 180

tcagaacaaa aaagtcttat cctcttataa agaaaaattg ttttatcctc ttacaaattc 240

cttggccaaa ctacttgtga ttcaataagg aatttttgag tgctcaaact gttcaatcta 300

tctcttt 307

<210> 5075
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5075

caacttccgt ttgcccatcg gtttgtgggt gacaagtggt tgaanataac aatttagtgc 60

ccaacttgct ccacatagtc ctccaaaaat ggcttatgaa cttagagtcc ctatcactaa 120

caatgctcct tggcaaccat ggagtctcac aatctccttg aanaacaaat cagccacatg 180

ggaagcatca tcaactttnt tacatggaat agaatgagcc catttagaaa acctatcaac 240

aaccacaaaa atggaatctc tacca 265

<210> 5076
<211> 251
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5076

caacacgaac aacaggtgag acaganaact tcatagctct aatgggatgg gcatcaactt 60

ccttttcatt agtcaaagta gcattctttg gtatgaactg atccatacca accatagcaa 120

cagtgttacc acaggggaca tcttccacag tttcctgtct ttttcccatc cacatgacag 180

ttctttgaac acttttaaca tacaaatcct tcttctcccc acggacataa tatggtccca 240

taatcctcac c 251

<210> 5077
<211> 294
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5077

atccacgtcg attaccaatc cttngaaaca tagcacgaga cctatcagct atgcttcttt 60

ctatagtaac atctgagtct gcatttagca tacgtggaag ggtgctcgat ccatttcgta 120

gttctctatc acatgaaaag ccagaggccc ttatctgtac acaagaatgg ctcanagata 180

caccttcacg caccatttta gacttcgatt tggaagagct tcaaagtttc gacaaacgta 240

tattgttttc ccaatttgta gtaataatat aattaaaata tttattgagt aaca 294

<210> 5078
<211> 309
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5078

aactcggatg tccaaatgaa acccgtatta tatcgagacg ctcgannatt gaaacagaag 60

ctcgtagcaa atgcaaacca caataactnt ttactccgat attcgactga gtcccgaatt 120

atatcaagac gctcgaaatn gagaacagaa gctctaagca aattcaaacg acaatacact 180

ttaactcgga tgtccgaatg tgtgctatag tatatcgaga cgctcgtaat tgagaacaga 240

agctcgtagc acattcaaac aacaacgtaa ttttacacgg atgtcctgtn gagtcgcata 300

atatatcga 309

<210> 5079
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5079

acatgggaaa catntataat cttgaatatt ntataataaa atatattntg gtaggtctct 60

atctaaaaat atattatatt ttttttcaca aaccacgaat atctntccta aaagccagtg 120

gttaatgaat attgattcct atgactcana tctgatgtca ctggttaaat taaaataatg 180

ttatgtcaat ggattcaagc actctatngg tntatataat atctttgtta tcatttcgga 240

aacatataat tatgaaattt ttatcatatt ctatcttaat atatctggta gataacattt 300

aattttctca caaacaggat atataaatct taatttctat tattt 345

<210> 5080
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5080

ccatgctaac atctgaatca tatcagcata tcacanaaac tgtttattca caatctgagt 60

cacatgttgt aagtggacat tctttaatgt attcatacta tacagtatcc atggcagcca 120

gaattcattc atgagaccaa ccctcttgtc tgtctgtngc agtccttcct ttgtcagttn 180

tcgcactttg ctaatcacaa atgtctgctc tcaaaacaac taaattattt tattattgga 240

tcaataccta taagaaaaaa gagagcagtt attgttaaga ataggaacaa cataccaaat 300

atatcagttt caactatact aaattcacaa ctctctaaca t 341

<210> 5081
<211> 231
<212> DNA
<213> Glycine max

<400> 5081

ctcaatagct cttgcaacat ggtgagtcag tcccattggt ggctttggct gtatcatctg 60

tagaagcatg atccccagtg aataaatatc agatttgatt ccagcatgct cgtttgctga 120

tactcagggt caatgtaaac agaaagtcca gcagttgatg tcatgcgata ctgtgtcact 180

gtgtctgcaa ctgtaggagg gacaagcctt gccaatccca catcactgat c 231

<210> 5082
<211> 318
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5082

tctgacattc accacagatt ctgtcttctt ctatnttcag attgggaatg cctctaacag 60

cacctctgtc aatgatattc ttcatgcctc ttaagtgcag atgtccaaat ctttgatgcc 120

atattctgac ttcatcttct ttggaggata gacatgtgga ggagtaactg gtttcttgag 180

gtgtccataa gtagcagatg tcctatgatc tgctgccctt cattagaact tcactcttct 240

catttgtcac caagcattct gacttttgtg aagttacatt tgaatcctta tcacacagct 300

gactgattgc tgatcaag 318

<210> 5083
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5083

agcttgctta agaaacttct atgaaggttg gatctttaag cttcaatgag gtccttcaat 60

ggtgattttc caccatggag atgcagcgga agataaagga gaagaggtga gaggaggcgc 120

catctactat gatgcaagct ccattggagc ttgtaggcct aggatcttct tcatcaatgg 180

attcctttgc ttcttggaag ataaatggca gcggaatgga gaaggaagag agagaggaga 240

cgccacttca aggagaagat gagtctagaa gaagctcacc accataggag gccatggata 300

agagcttgga ggaagaagga gatgaatgaa gggagaggga gagaagagca cgaaattntg 360

tgctcaaaag gagctctgaa atctgaagtt aatattcaaa tgatncaaag tgaaaaaaat 420

acacacacat ga 432

<210> 5084
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5084

agcttagact aagtttatcc taccatcctc agactgatgg tcaaactgaa cgaactattc 60

agtccctaga ggacctttg agggcatgtg tcttagagaa aaagggaatt tgggagagtt 120

ttcttccatt gatagagttc actcataaca atagttttca ctctaccatt ggcatggctc 180

cctatgaagc tttgtatggt aaaaggtgta tgacacccct atgttggtta gagcccggag 240

aagacctcac cttatgacct gaagtggtat aacaaaccat cgagaaggtc aagttgatcc 300

aagaaaggat gaggactgct tanagtanac agaaaagtta tcagaataag aagaggaaag 360

acctggaatt cgaggttggt gatcatgtat tcttgagagt cactccatgg act 413

<210> 5085
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5085

ngctntaaga ctgtatattg atttctttag tttgcacacc atgtgttcct ttcctttaac 60

tgagaacccc attagttggt ccatataaat attctcctct aaatctccat ttagaaaggc 120

agttttcaca tccatctgat gtagctccaa gtcataatgg gctactaatg ccatgataat 180

cctgaaagaa tcctttcgtg agaccggtga aaacgtctct ttataatcaa tgtcatcttt 240

ctgagcaaat tccttagcaa cgagtctagc cttgtaacgt tcaaggttgc catgagagtc 300

acgcttagtc ttgaagaccc acttacaacc aactctctta caatcctttg gtaattctac 360

aaggttccaa acaccattat gttccatgga aattatctct tctttcatga cattaaacca 420

cttctcagaa ttatcacann atatagctng tgaaaacaaa acttgatcat tatca 475

<210> 5086
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5086

gtcattaatc gtaatgaana ataacaatta aacaacaatt aataaaagag aagtcaagct 60

tattgaaaag ctagtaaata cttggaaaat atccatttgc aacatgttgg tataaaaaag 120

taacaacgat aataaaatta attaaggcgt acccaacaag ctttctcttg ctttgaaaag 180

tcattaatcg taatgaaaaa taacaattaa acaacaatta ataaaagaga agtcaagctt 240

attgaaaagc tagtaaatac ttggaaaata tccatttgca acatgttgga gtaaaaaagt 300

accaattatc tcactaatga aacttatata taaaaaacat taataaatta atcaacatgc 360

acctttcaat aagcgataat aaattaatca nagcgtataa ctagagacat g 411

<210> 5087
<211> 437
<212> DNA
<213> Glycine max

<400> 5087

tggaaatgaa caacggaagc tctcgagaaa ttcatatggt cataacttat cacatggaag 60

tccgattaag gcgcataata taccgagacg ctcgaaattg cacaacggaa gccctcaaga 120

aattcaaatg gtcataactt atcacacgga agtccgataa aggcgcatag tatatcgaga 180

atcttgaaat tgaacaacgg aagctgtcga gaaattcaaa ttgtcataac ttatcacacg 240

gaagtccgat tcaggcacat aatatatcga gacgctcgaa attgaacaac gaaagctctc 300

gagaaattca agtggtcata acttttcaca cggaagtccg attcaggcgc ataatatatc 360

gagacgctcg aaattgaaca acagatgctc tcgagaaatt caaatgatca taacttatca 420

cacgtaagtc cgattct 437

<210> 5088
<211> 426
<212> DNA
<213> Glycine max

<400> 5088

agcttgaaat tgaacaacag aagctcacga gaaactacaa tggtcataac atgtcacacg 60

gaagtccgat tcaggtgcat aatatatcga gacgctcgaa atagaacatc ggaagctctc 120

gagaaattcc aatggtcata acttttcaca cggaagtccg attcaggcgc ataatatatc 180

gagaagctgg aaattgaaca acgaaagctc tcgagaaact caaatggtca taacttgtca 240

cacggacatc cgattcaggc gcataatata tcgagacgct cgaaattgaa caacgtatgg 300

tgtcgagaaa ttcaaatggt cataacttgt cacacggaag tccgattcat gcgcataata 360

tatcgagacg cttgaaattg aacaacggaa gctctcgaga aactcaaatg gttataactt 420

gtcaca 426

<210> 5089
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5089

agcttgagaa tggaggattt ccttgagggt cctctcttat gcaatcatgg aacacagctc 60

caaactcaaa aatggaggac acatgaatga caacgcaatt cattcatggg gctccgaaaa 120

agggtaagaa tggaggattt gcttgagggt cttctcttan gcaatcatgg aacacagctc 180

caaactcaaa aatggaggac acatgaatga caacgcaatt cattcatggg gctccgaaaa 240

agggtgagaa tggaagattg ccttgagggt cctctcttat gtaatcatgg aacacagctc 300

caaactcgaa agtggaggac atatgaacag ccctcagcaa taacattcat gtggccctgg 360

aaaagaatga gaatggagga tt 382

<210> 5090
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5090

agctngggtc caattcaaac agccctaact tttgacattg agatgctaga aattgagaaa 60

tggaagttct tgagaaattc aattggtcat aacttttcac tcggatgtca gattcaagag 120

caaaatatac agagacgctc gaaattgaac aacggatgct ctctagaaat ttaaatggta 180

aaatttttc acatggatgt tatattcaga cacataatat atcgagacgt tcgaaattca 240

agaattcaaa aattaaagtt ctcaagaaat atagagatga aaaattatga ccatgggtgt 300

acgattgaga cccatgatat atcgatatgc tcaaaattca aaaattggtc caattcaaaa 360

attcaaagag ccctaacttt tgacatgggt gtacgat 397

<210> 5091

<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5091

ntcgcaaggc ggggatgttc atgagcatat cagttcgttg tcgtgtagtc atgatctaca 60

taatgtcaga tcatattact ttgtatgtat gacaaaaatg aaaccaagat ttttggacct 120

ctcatttata gttatacaag gttgcatacc tccatgcttg ttccatcctt agctatctgt 180

tgtgatggag caaattcaac aatataatca gttacagata gaagccactc aatttctttt 240

ctccacctgg cctttctttc tgaggacatt ggctccagct ttgattgttc tccgaaaaca 300

gatgctgcat tgaatcagga aacaaattat tgaatggaaa tttcattgag acttgagaga 360

tcacatttca gttagtcaca gttataatat gcatgtgctt gaatntgaat tgagatgact 420

acactatcta ttaattntat agaaatcaag ccccatgatn gaaatcacac t 471

<210> 5092
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5092

taagctcctt caactgcaca aggctcttaa tatttgaaga gtatccttgt ggaaccttca 60

cccgatgaag acactgacaa aaacttatct tctccttcct tgacaaagta tggcaggctg 120

ggggcaagta aattttcttc ccatcaaacc ttggatgcaa ctgtgatctt atacccatat 180

cagctagatc ttgacgggta ttcaatccat ccttcgtctt gccttgaatg ttaaggagcg 240

tcccaatcac actgtcacaa acatttttct ccacatgcat aacatcaata caatgtctaa 300

cgtcaagatc acaccagtac ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360

tctgacnttt atccttcttt tgggtcttcc caaatacaat gttcaagtgt tgaacccgct 420

gatatacctg ctcaccannng aacggtttcg gcgtaatatc atgc 464

<210> 5093
<211> 429
<212> DNA
<213> Glycine max

<400> 5093

tctattggat gtgatgacaa taagtatatc actaattatt ttataaaaat cgcggaaaag 60

gattatagac tcacaaattt aatccgaatt gattatatat aattgagctt atttggttta 120

agttttaact ttctttcttg ttcattatag aagattatta tatattttta agtcttttat 180

ctatattcat tgcctttata tataaacttt taaatctata ttaatatagc ggcaaatata 240

ttttactcat taataatact caaatatatt ttatttaaca tctagtatta tttgtgctta 300

tcagtgctat cacattacat gtctcattat ttttttaatc caaaatatga tagaattatt 360

accgaactta tcagtgatat cactatacgt gtctctttat taaactaaaa ctagagcata 420

ttaataaac 429

<210> 5094
<211> 316
<212> DNA
<213> Glycine max

<400> 5094

agcttgctta ttcaaatttc aagatacaag tgaactcccc aagaagtgac atggcccact 60

tgtggttttc caatctagct tacattctgc aaagttagaa tatgaaaatc caattaaact 120

caaggaggta cctttggggt accttaaacc aacattggtt gtgcccttaa agtacttaat 180

aatccttttg acaacattta aatggtattc cttgggattt tatttatatc tttcacatat 240

gcacacactt agcatgatgt caagttggct tgtagtcaaa tatatgagat aaccaatcat 300

acctctatac tttgac 316

<210> 5095
<211> 456
<212> DNA
<213> Glycine max

<400> 5095

aagaactatt actattgaag aattaattca tgttattttt tatgagacta actctattag 60

gccaagaaag gatatacttg atgatattac agatacttta gaagatacgc atattcatga 120

agaagtccac aaagacaaag aagatggaaa tagtagagac tctcaatcca aagaaaatca 180

aataaacgtg gatcttccaa cggagtggag aacttcaagg tatcaccctc ttgataatat 240

cataggtgac atctcaaaag gggtaacaac tcgacacttt cttaaagatg catgcaataa 300

catggctttt gtctctttaa ttgaacctaa aaacataaat gaagccataa tcgatgaaca 360

ttgaattatt gctatgcaag aagaattaaa tcaatttgaa agaaatcaag tatgggaatt 420

agttgataga cccaatgatc atccaattat tggaac 456

<210> 5096
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5096

ntctgcaggg aagctaagtg tgaagtatgc aatcctgcat atgattggcg ctgcaaactg 60

ggtacccacc aatcatactt ccactgttgc cacaggtttg ggtaaatttc tgtatgctgt 120

tggaaccaag tccaaattta attttggaaa ctatattttt gaccaaactg ttaagcattc 180

agaatctttt gctgtcaaat tacccattgc cttcccaact gtattgtgtg gcattatgtt 240

gagtcaacat cccaatattt taaacaacat tgactctgtg atgaagagag aatcggctct 300

gtccctgcat tacaaactgt ttgaggggac acatgtccca gacattgtct cgacatcagg 360

gaaagctgct gcttcaggtg ctgtgtccaa ggatgctttg atngctgaac tcaaggacac 420

atg 423

<210> 5097
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5097

agcttattct ttatctagag tagttgagca caacaactta ctactgacat atattcgact 60

ttagtagtgg acaatgtagt tgagccttgc atcttgcata ttcatgttac taagttagca 120

ccgataaagt aatagcttcc actagtgctt tttctttcaa ctttatcacc aacatagtca 180

acatcataat agcttgtaag tctgaaactt tctcttcttt tgaacataag accaagatta 240

gaagttccaa ttaaatatct acaaatatgt ttaattttag ttaggtgaac ttccctttgt 300

tctttttgaa atcttgcaca tagataaaca ttgaacataa tatcagaaat ggatgcagtg 360

agatagacca gtgagttgca tccactttnn ttgatccttg tccaatccaa ggtatgtcat 420

ggtgtgcatn ggagtcttca tt 442

<210> 5098
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5098

tcttattcac ataacaccaa tagtattcca tttataagca gagattgacg attcanatta 60

catatttata agagaccaac caaacacaaa gcaaccacag cttataacac ccgtaacaaa 120

tcctagaaca tttgaatttg caaaggcggg ccatgaccac tttattctaa aacttcaaac 180

acaacacata cttattattt attgatacat gtattacagc tatctctgct tgaaggttat 240

gcatgttgat ctcacttgca gctgcatggg tcgcaagtgc agtttgatcc acagttgcag 300

ccaccgttct cagctgcaac acccatttca gcaccctcga attgggcctt caccggccca 360

acacccaaaa ctagagtctc atttgtgatc ttctcaacgt agtcaaaaga gtacttgttg 420

caactgcaat acatganaaa ttaacataca taaggttggg gaaaaca 467

<210> 5099
<211> 351
<212> DNA
<213> Glycine max

<400> 5099

tcctttactt gtactcattt ttattgcgtg cggttgtaat ccaactgccg ggcatgttca 60

gaacaaccag ttgaatccag tatggaatga gcactttgaa ttcattattg aagatgcgtc 120

aacgcagcac ttgacagtaa gaattttcga tgatgaaggc gttcacgctt ctgaacttat 180

tggctgtgcc caagcttcct tgaaggatct tgaacctggt aaagtcaagg acgtatggct 240

taagctggtt aaggatttgg aggtccatag agataacaaa tacaggggtg aggtaagata 300

gtatgttctt agtgtcttcg caactttcat ctagcattct agctgatcaa t 351

<210> 5100
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5100

agcttnttag ttttagtaga tgaagatgaa tctgtggcca cctcatggac tcctctaagg 60

ataatagcat catttcttgc actgaattgt tgggagttgg aagccatctt ctcaatcaaa 120

ttcctagctt cagcaggggt catatcacca agagctccac cattggcagc atcaatcata 180

ttcctatcca tgttgttaag tcccctcatag aaatattgaa gaaggagttg ctcagaaatc 240

tggtggttag gatagcttgc acacaatttc ttgaatcttt cctagtactc atacaagctt 300

tctccactaa gttgcctgat gcctgaaatg tcttttctga tggcagtggt cctagatgca 360

gggaagattt tcttcaagaa caccctctta atgtcatccc agctgaaaac ggacct 416

<210> 5101
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5101

agcttcacag aggagataga gttagggtcc ttnggagcgg tttatagagg cacaattggt 60

gacactaaca caagtatcgc cgtcaagaga ttatagacaa ttgctgatga aggggagagg 120

gaatctcgaa ctgaaattac tgccattgct cgaacacatc ataagaattt ggtgaagctc 180

attggttttt gcatcaatgg agctaggaag cttcttgttt atgaatatgt cagcaacggg 240

tctcttgcaa gtcttctctt caatgatgag aagcacatgt cttggagaga cagactaaaa 300

atcgccttgg atgtcgctag aagagtccta tatctacatg aagagtgtga gggccgtatt 360

attcattgca gataaatcct ctaaatatac ttatggat 398

<210> 5102
<211> 419
<212> DNA
<213> Glycine max

<400> 5102

agcttgggga gctaggaaga ctctctgcat tattgaagaa gttagagaaa gatctcaaga 60

acaagaataa atacgatgta tgttatccat tcttgtggat aaattcttca aactttctgt 120

tatgggtttc tttggactgt gattgcctta cttttgtatg tgtattggtt acctatatat 180

ggctgcagga tgagcaatac cgtgccaaac taaacaagtc aaatgagagg actctatcac 240

ttatcaaagc aggaattgat actgtggtag cagtaggact gcttcaattg gcacccaaga 300

cagttactcc tcgcgtaact ggggcttttg gatttgtttc gtctctaata tcttgctatc 360

aggtacctgc tagtataatt gtagtttaat tccgttgtgc ttctattttc ctatcctat 419

<210> 5103
<211> 437
<212> DNA
<213> Glycine max

<400> 5103

agtcgctcca acaatttata tacttaactc ctacctcctt agccaatctt aggtgggcta 60

agagggtttc atactcaact ttattattcg tcatctcaaa ctcgaacctt agggattgct 120

ctaggattac ttcacctatg ctttctagga tgactccagc cctactccct tttttcattg 180

gatgaaccat ctacgtatag cttccacctc tcagattatg gttctgtagt ggttgtcatt 240

ttggctatga agtttgctag gcactacgcc ttcattggac ctattggctc atatttaagc 300

ctaaacttgg acaacttgat cgatcaggct atcattcgac tcgtgagttc tggtttcttc 360

ataactgttc agatagggtg gtcagttcaa accacaatct aatgactttg gtaggaagta 420

tgggtctagt ctcctac 437

<210> 5104
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5104

agctnttcca tctatctata tgtgagtcga taaggagttt cattggttgc tatctggagt 60

gtacagtggt acgcccaggg tatgttgtag agttcttctt tccataggcc cttagactta 120

tcgagtctag tacgcagggc cctgaggatg actctgttag ctgcctctgc ttagctgtta 180

gtatgaggat gttcgacaga ggtgactagg tccttgatgc ctagccttgt taggaagtct 240

tcataagtgt gagctctgaa ttgaggttgt tgtcggtgac aatggtgtat gtgaggtcgt 300

acctgcatat gaggggtttc taggtgacta tttccacctc gttggctggt aatttac 357

<210> 5105
<211> 394
<212> DNA
<213> Glycine max

<400> 5105

agcttgagct aaaaggtttc tccacataat tttattaata agaggctcag ttctacccac 60

tggccttttc tccattaact cctttgtagg cctttctgta gctagtgcca atgctcctag 120

agtatccata atgagattta cccataatag ttgaactgtt gttaggggaa cgtctcccga 180

agaaactgct gcaataaaat tgatcactag tgctgcaaca ttcacggtta gttgaaactg 240

gatgaatttc tggatgttgt tatagacaca tctcccccac cttaagacag tggcaacaga 300

attgaagttg tcatctaaga tcacaatgtc agaactctcc ttggcaactt cagttccttg 360

gatccccata gagagtccaa tatcagcttc tttt 394

<210> 5106
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5106

tctcgagaaa ttcgaatggt tataactntt cccacaaatg tccgattcgg ggacataact 60

catctagacg ctcgaaattg aacaacgcaa gctctcgaga aattcgaatg gtcataacat 120

ttcgcacaaa tgtccaattc tgggacataa tatatcaaga cgctcgaaat tgaatagcgg 180

aagctctcgg gaaattcaaa tggtcataac ttttcacatg gatgtccgat ttgggaaaat 240

aatatatcga gatgctccaa attgaacaac gaaagctatc gagaaattcg aatggtccga 300

acttttcgca cggatgtccg attcggggac ataactcatc tagacgcacg aaattgaaca 360

atggaagctc tcgagaaatt tgaatagtca taagatttca cacggatgtt cgatttgggg 420

aaatatat 428

<210> 5107
<211> 492
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5107

tattacggac acttgaatct cagcttcaag acaactctcc ttgttgttgt ctacctcaac 60

ctctatttca tatattggct tgcctagtat agttgctact gttaataata actcttgtgt 120

ggtttccaat tctgttgttt cttcttctag tactcctagc ctttggcatt ctagattagg 180

tcaccctaat ggtcatgtaa tgaaactagt cttcaatcat tgtaacattt ctccatcaaa 240

taaaaatttc tcaggttttt gttcttctag ttgtatggga aagtctcata gattaccatc 300

tcacactttt gtttttgttt actctccttt ggagcttatt ttcacatatt tgtggggacc 360

ttctcatttg acttcatatg ctggttataa atattatgta tcctttattg atgnttttnt 420

ccaagtacac ctggatattt cttatcaagt ctaanggtga aactctnntg ttttcaagct 480

tntaaatcta tg 492

<210> 5108
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5108

tcttatccag gcaattctng gtggtgaagc tccttcttcc ttggcttatt ccctagtgga 60

tggtgcctcc cctatcctct tctcctttgc cttccgctgc atctccatgg tgaaaaatca 120

ccattgaagg acctcattga agctcaaaga tccagcctcc atagaagctc cacaagcaag 180

cttccatcat gaatgaagtg atttctaatg ttagtgtgtt tagtcctctc atgatggact 240

tgatccttgg caaaacaaaa tgcatttaga cagtggcaaa aaatgatatg cctcttttttg 300

tggaaaccca agattgctaa ttagaccctt cagccaagtt cattccttta ctggttcttc 360

caacgccatg tactctacct gtgtaatgga taaagccacc atgggttgaa gtgtagtctt 420

ccaactgagt agagtgttgc ttccatgtnc ttcatctcaa attactactt agt 473

<210> 5109
<211> 133
<212> DNA
<213> Glycine max

<400> 5109

tattgcaaga gaatgaattt agcacctgat caatgaatta tacaagcaac ttctcaccac 60

gatcacgctc cccggatagg gaggctgtct ccatggcatc tttgtaaggt aatccttctt 120

tgacaaacaa tat 133

<210> 5110
<211> 432
<212> DNA
<213> Glycine max

<400> 5110

agcttcttag tctcagctga tgaagatgaa ttcatggcta cttcatgcac tcctctaatg 60

acaatagcat catttctggc actaaattgc tgggagttgg aagccatctt ctcaattaaa 120

tttctggctt cagcaggggt catgtctcta agggctccac cactgacagc atctatcata 180

cttctctcca tgttaccgag tccttcataa aaatattgga gaagaagctg ctcagaaatc 240

tagtggtgag ggcaactggc acatagtttt ttaaatctct cccagtattc atataggctc 300

tctccactga gttgcctaat gcctgaaata tcctttctga tggttgtgat cctggaagca 360

aggaaatttt tttctaagaa tactctcttg aggtcatccc agctcgtgat ggaccttgga 420

gcatggtaat at 432

<210> 5111
<211> 161
<212> DNA
<213> Glycine max

<400> 5111

agcgttgagc cattgaattt ctcgagagct ttcgttgttc aattttgagg gtctcgatat 60

attatgcgcc tgaatctgac ctccgcgcga aaagatatga ccatttgatt ttcatgaaag 120

ctaccgctgc tcaatatcta gcgtcttgat atattatgcg c 161

<210> 5112
<211> 412
<212> DNA
<213> Glycine max

<400> 5112

agcttgtgca tccaataccc tgatgaggat gtcccatatg ttcttaaaac tggactaatc 60

catttgcttc cagagtttca tggccttgca ggtgaagacc cacacaaaca tctgaaagaa 120

ttccatattg tttgctccac catgaaaccc ccagatgtcc aggaggatca catatttttg 180

aaggcctttc ctcattcttt agagggagtg gcaaaggact ggctatatta ccttactcca 240

tggtccatca cgagctggga tgacctcaag agagtattct tagaaaaaaa tttccctgct 300

tccaggacca cgaccatcag aaaggatatt tcaggtatta tacaattcaa tggagagagc 360

ctatatgaat actgggagag atttaaaaag ttatgtgtca tttgcccgca cc 412

<210> 5113
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5113

tcaagaatta tggcctcatc aaactacttg tttcccgagg gaaattctat aaatagacct 60

cccatcttta atggagtggg ttaccactac tggaaaaccc gcatgcaaat ctttatagag 120

gcaatagatt taaatatttg ggaagccata gaacaaggac cttatgttcc ctctatagtg 180

gccggaagtg caacaataga aaaacctaga gcagattgga ctgaggaaga aagaagatta 240

gtacaatata atttaaaggc caaaaatatt attacatctg ccctaggaat agatgaatac 300

tttagggttt caaattgtaa aagtgctaag gatatgtggg atacactaca agtaacacat 360

gaaggcacaa canatgttaa aagatctagg ataaacactt taactcgtga atatg 415

<210> 5114
<211> 271
<212> DNA
<213> Glycine max

<400> 5114

agcttaagct ccttcaactg cacaaggctc ttaatatttg aagagtatcc ttgtggaacc 60

ttcacccgat gaagacactg acaaaaaatt atcttctact tcttggacaa agtatggcag 120

gctgggggca agtaaatttt cttcccatca gaccttggat gcaattgtga tcgtataccc 180

atatcagcta gatcttgaca ggtattcaag ccatccttcg tcttgccttg aatgttaagg 240

agcgtcccaa tcacactttc acaaacattt t 271

<210> 5115

<211> 386
<212> DNA
<213> Glycine max

<400> 5115

agcttcaaga ataatggtct catcaaactt cttattccta gaaggaaatt caattaatag 60

gcctcctatt tttaatggag aggattacca ttattggaaa acccgaatgc aaatcttcat 120

tgaggcaata gacttaaaca tttgggaagc catagaagta gggccttatg tacccactat 180

ggtggctgga aatgcaacaa tagaaaaacc tatagaagag tggactgaag atgaaagaag 240

attagtgcag tacaatttaa aggctaaaaa catcattact tttgccctag gaatagatga 300

atattttagg gtttcaaatt gtaggaatgc taaggatatg tgggacactc tacaagttac 360

acatgaaagc acaactgatg ttaaac 386

<210> 5116
<211> 436
<212> DNA
<213> Glycine max

<400> 5116

agcttcttat ccaaagctca tcttggtggt gaagctcctt cttccatggc ttattcctta 60

atggatggcg cctcctctca cctcctttcc tttgtcttcc gctgcatctc tatggtggaa 120

aatcaccatt aaaggacccc attgaagctc aaagatccaa cctccataga agctccacaa 180

gcaagcttcc atcatagggt gacgaaagtg gtcttttcca catcttcggg tgccattttt 240

atttggttat accctgagaa accatccata aatgagaaaa gggcgaactt agctgtatta 300

tctactagta tatcaatgtg tggtaaggga aaattgtctt taggactggc tcggtttaaa 360

tcccgatagt caacgcacat ttgcactttg ccatcttttt ttgggacagg gacaatgttg 420

gctacccact ccgggt 436

<210> 5117
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5117

tcttaacatt caaggcaaga caaaagatgg tttgaatact catcgagatc tagctgggat 60

gggtatacga gaccagttac atccaaggtc tgatggtaag aaaatatact tgcctctagc 120

ttgtcatact ttgtctagaa aggagaagat aagtttgtgt cattgttttt gccatgtcaa 180

agtgtctcgg ggattctctg gaagcaatgt cttccaaggt tattttgatg atgtcaaaga 240

atcaagagtt aagcaaagtt tcaagcaaag attcaagaat caagtttcaa gattcaagac 300

tcaagaatca agtttcaaga atcaagattc aagaataatc aagatcaaga ttcaagactc 360

aagattcaag aatcaagaag aagactcaat caagataagt attaaanagt ttttgaaaac 420

attgagta 428

<210> 5118
<211> 438
<212> DNA
<213> Glycine max

<400> 5118

agcttttcca tctagctata tgtgagtcga taaggagttt cattggttgc tatctggagt 60

gtacagtggt acgcccaggg tatgttgtag agttcttctt tccataggcc cttagactta 120

tcgagtctag tacgcagggc cctgaggatg actctgttag ctgcctctgc ttagctgtta 180

gtatgaggat gttcgacaga ggtgactagg tccttgatgc ctagccttgt taggaagtct 240

tcataagtgt gagctttgaa ttgaggttgt tgtcggtgac aatggtgtat gtgaggtcgt 300

acctgcatat gaggggtttc taggtgacta tttccacctc gatggctgta attttacgaa 360

gtgatcttgc ttttatccac ttggtaaagt agtcgatggc tactagtaag tatttgacag 420

ctcttgcgga ttatggca 438

<210> 5119
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5119

agcttaactc tcaaattccn cttcatccca tgctcttttg atataggcat tccttcatta 60

gggacaacaa cctcagcacc aggtttgaca atatctgtca atgggatcat gagactcctt 120

ccgtccaagg tggtgagatc caacgtttta ccagtaaggg cctcaagaag ggttatctct 180

tggttgatca ccaaatcatt accatccctt ctataaagag catgcggctt ctcatctatc 240

acaaaaatga gatctgctgg gatgacacca ggctcacggt tacctttctc tgggaaggta 300

atttttgttc ctttcttcca gccaggtttt atctcgatag tcaaaatctc ctccacatcc 360

ccacatttgc tg 372

<210> 5120
<211> 464
<212> DNA
<213> Glycine max

<400> 5120

tagtaaagct aagcactaac aatctcctct cttggcagaa tttgtctaaa acatacttag 60

acacttcctg agcaggtacg agcagttatg caagtgggat cagcaacttc cattatcaga 120

gtaatcaagc acagcggaat ctgtagtcta gacaagttgc aagtcgtttc caggatgtca 180

agacatctca catgacatct gctttctgct tctgctcccc ctgtctccat gcttactgca 240

gcatcttcta tcagctacta gtcttttcca ggatgtcaag acatctcatg tgacatcagc 300

tttctgctcc ccctgtcttc atgctcttac tagtagctta catcagtcat cattggcagc 360

agtctccccc tcaaagtcat atacatacaa ctccccctca aaatcatgaa tcatgcatac 420

atcgtatcct actgccatac atcatacata gtatcctact actc 464

<210> 5121
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5121

agctngatcc ctcaaaaaag gataacgtta atgaaaatag tgaaaacaaa ataattaaag 60

agatagttta ccttgatgtg gtttttgtag tatcccttca ccacaggatt tgtaaaaaag 120

tcatcctcag aatttatgga ctgtccctga ctccttgccc attccacata ctgtttcttt 180

ccacccatgt tctcatagtt attcaccaaa ctcaacacca tcttgatccc atattttctt 240

gcttcggcta ttgcgaaatc caagcccttt ttatttccaa tccaagaaaa caacagagtt 300

aacaaatggg aaatgaagtt ttgttctata cactattaga aaaaatacaa ttagatagaa 360

aaaaaaagta attttccgtc actaaatttg atcattaatc cattggtatg aaaatg 416

<210> 5122
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5122

nntgcttnca ttgtagccac ttaacctcag gacttattga gggtgatgaa ttaagaagaa 60

attctgatgt gatggagatt cttaagaaga caaggtttct acgtgtacat gatgctgaca 120

atgagaagtc tcccgagaca atcctcgagc atgagtatga atttacttgc atacatctta 180

gtataactaa tactcttaac atgtttatgt aatttgaggc cctccttgca ttttcctgtt 240

ttgcattaca tgttctaatt ttggatccat ttattttagt cgaattatat ggcttggaga 300

cttgaattat cggattgccc tctcctaccg ttttgctaag gcacttgttg agatgcaaaa 360

ctggagagca ttgttggaga atgaccatgt acgcctatat aactctgttc ttttaatatc 420

taattttcta tcttttaact tcaactggat t 451

<210> 5123
<211> 426
<212> DNA
<213> Glycine max

<400> 5123

agcttatgtt gcaaacatct acaatagacc tcttcaacct cagcagcaaa atcaaccaca 60

acagaacaat tatgacctct ccagcaacag gtacaatccc gggtggagga atcatcccaa 120

ccttagatgg tcgaatcctt cacaacagca gcaacaacaa aaacagcctt attttcagaa 180

tgctgctggc ccaagcaaac catacgttcc tccaccaatc cagcagcaac aacaacaaca 240

acaatagccc cggaaacatc aaacagttga ggcccctccg caaccttccc ttgaagaact 300

tgtgaggcaa atggctatgc aaaacatgca gtttcaacaa gagaccagag cctccattca 360

gagcttaact aatcagatgg gacaattggc tacacagtta aatcaacaac agtcccagaa 420

ttctga 426

<210> 5124
<211> 343
<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 5124

agcttatacg acctatgatg tggttntgtg actaaattca atttagacac aagtctttca 60

cttgccatat tggtacaact ccctccatca atgatcacca tgcaaacttt gccattgatc 120

aaacatctag tgtggaaaat gttttctctt tgactttcct ccatagattt caattgatgg 180

ccaagtaacc gcctaatcat caacaattct ccctccggtg ttttctccac ttcctcctca 240

tcatcctcac tctcttctcc cttttcaact tcggactcac taatgtaatc tccatctcta 300

agaatcatgg ctntcttgtt agggaactca tatagcataa tgt 343

<210> 5125
<211> 348
<212> DNA
<213> Glycine max

<400> 5125

tgacgatccc tgtttataca tcaaaagcaa acatattggt gacaaaaatc actacataaa 60

aaagataaat cataaaaaat gcgaataaat aataatctaa aagatttaaa ccagataaag 120

aaactaccac cttctataaa atccaacaaa agtaagtcgg ttatcaatat aaagattttt 180

atatcaacta ataataaatc cttctagata taatccacct gttgttaggg tcaatctcaa 240

gcgctttctt aatatcaaat tcggccaagt ctaaatcagc caactggata tatgcctggg 300

cccttctata gagagccttc acattagtac tctcaaggtc cagtacct 348

<210> 5126
<211> 430
<212> DNA
<213> Glycine max

<400> 5126

ttaagtcacc tgcggcatgc aagcttccag attagtgtac caaatgaccg ctgctccagc 60

caagctatct tggaaaaagt gcattaacaa cttttcatcc ctagaatgca cccccatctt 120

gcgacaatac atcttgagat ggttcttagg acaagtcgtc cctttgtact tgtcgaaatc 180

aagtaccttg aattttgggg ggatgacgac gtctggtact aagcaaagat tcgccatgtc 240

cgcgaacgga taatcaccaa agccttcaac agctctcaat ctctctttga tgagatcgag 300

tttccttctt tcttccgttg ccggggatgg tccttctatg gacaagaata ttggctgtgc 360

tgggaggttg ggctgaggca gtatgttggg tgccggcccc tcgatgggga ccaggggta 420

gaaatcgatg 430

<210> 5127
<211> 416
<212> DNA
<213> Glycine max

<400> 5127

tatacttcat cactagattg ctgatgtgca tttccagcac tgtcgctgcg tggaagttca 60

tctcttacaa acactgctca gaagcataag ccagggcttg gatacagaag cgcaaacact 120

gctatcttgg actgaggcaa ccttttaaag atctcacata ggcattcatc tggcaaagac 180

tcaatagatg tcttatgctt ctgctcaaac cattctccac tgatatcaaa tggaacactg 240

aagcgagacc tcttctgaag aggaaggata acatgaactt gactgtcaag agacaagatg 300

agacacggct ccttcgggtt aggataaata ggaccaccat gactacaatc atcattttct 360

gacaaaccaa acatgtctaa agtcaagatg gcgacaaaac tgcacataaa taaata 416

<210> 5128
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5128

ntggagtttc caagtgccaa ttcgtcttct tctttagtcc agtcttcttc tggcttcaat 60

tcatcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120

gctttccagg ttctgctatc cagtgatttg aggaaggcca ccattcttgc tttccagtat 180

tcatagttgg ttccatcaag aattggtggt ctgttcactg gtcctccttc tttctccatg 240

ttcatcagaa tttatctccc tagatctcac tctgtgattt cgagtgttgg ctctgatacc 300

aattgaaatt ctgataccag gggacagatg tcgtaccgga tgtcacgaca tcacgcttca 360

gaacatgcag attagatgcg tccgtatgaa cagattaaac aagtnaataa cacaagagga 420

ttgttaaccc agttc 435

<210> 5129
<211> 438
<212> DNA
<213> Glycine max

<400> 5129

agctagaact cttgcacctc cttgaagatc aactcatgac ttctcccaaa ctttggctgc 60

ataaaccttc tttggcccac catctttggc ctccaaagtg atggtgtaca atgaaccaga 120

aaccacttgc tgtttcgcag ttaccacctt ttcaaactcc aaaagggcat tctgcatagc 180

catttacaat tcaataaaaa taaaatataa ttcatatata ccacagaata aaaagataat 240

agaagcccgt tcgtggttat tgaaattgac cctaccaatc tatttattcc ttgacagtaa 300

tggaaatgca aatttatcct aacaatcaat taatttttgg tgaacaaaat tttgggggag 360

gggtgatgcc ccagaacaag acagataaag cctccgagct caaagaacat tcacagaaga 420

acttacattt accccact 438

<210> 5130
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5130

ctatctacta ctcaagctta tgctgcaaca tctgcgatgn acctgctaaa cctcagcaac 60

aaaatcagcc accacagaac aattatgacc tctgcagcaa caggtacaat cccgggtgaa 120

ggaaccatcc caaccttaga tggtcgaatc cttcacaaca gcagcaacaa caacaacagc 180

cttattttca taatgctgct ggcccaagca gaccatacgt tcctccacca atccagcagc 240

aacaacaaca acaacaacaa ccccaaaaac agcaaacagt tgaggctcct ccgcaacctt 300

cccttgaaga acttgtgagg aaaatgacta tgcaaaacat gcagtttcaa caagagacca 360

aagcctccat tcagagctta actaatcaga tgggacaatt tgctacacaa ttaaatcaac 420

aacagtccca aaattctgac agattacctt ctcaatctg 459

<210> 5131
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5131

taagctcctt cgactgcaca agactcttaa tatttgaaga gtatccttgt ggaaccttca 60

cccgacgaag acactgacaa aaacttatct tctccttttt ggacaaagta tggcaagttg 120

ggggcaagta aattttcttc ccatcatacc ttggatgcaa ctgtgatcgt atccccatat 180

cagctagatc ttgacgggta ttcaagtcat ccttcctctt gccttgaatg ttaaggagca 240

tcccaatcac actgtcacaa acatttttct ccacatgcat aacatcaata caatgtctaa 300

cgtctagatt agaccagtat ggaagatcaa agaanatgga cctctgcttc catatgcaac 360

tcttactttt atccttcttt tgggtctttc caaatacagt attcaggtgt tgaacccgct 420

gatata 426

<210> 5132
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5132

tcttagtttc agatgatgca gatgggtntg tagctacctc atgcactcct ctaatgacta 60

tggcatcatt tctggcgcta aactgctggg agttggaggc catcttctca attaaatttc 120

tggcttcaac acgagtcatg tctccaaagg ctccaccact ggcagcatct atcatacctt 180

tctccatatt actgagtcct tcataaaaat attggagaaa aagttgttct gaaatctgat 240

ggtgggggca actggcacat aatttcttaa atctctcaca gtactcatac aggctctctc 300

cactgagttg tctaatacct gagatatcct tcctgatggc tatggtcctg gaagcatgga 360

anattntttc taagaatact ctcttaacgt catcccagct cgtgatggac ctt 413

<210> 5133
<211> 429
<212> DNA
<213> Glycine max

<400> 5133

ctgttttcaa tcttgtgcat ctcgatatat tacaggtctc aatcagacat ccgagtaaaa 60

agttattgtt gttagaagtt gcacagagct tcagttttgc attttgaggg tctcgatata 120

ttacgggact caatcggaca tctaagttaa aagttattgc tgtttgcatt tgcttcgagc 180

tttcattttc aattacgagc gtctcgatat attacaggac tcaatcggac atccgagtaa 240

aaagttattg tcgttagaat ttgctcatag cctctatttt caattttgag tgtgtcgata 300

tattacggga ctccgtcgta catccgagta aaaagtaatt gtcgttagaa ttttctcaaa 360

gcttctgttt tcaatttcga gcgtctcgat atattacagg actcaatcgg acctctgact 420

caaaagtta 429

<210> 5134
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5134

cggttacctc cttcttcact acatcaagaa ttactgggtt gcgtcttctc tgtggttgtc 60

ttactcgttt agccccatcc tctaaattta tccgatgcct acatgtggat gggctaatac 120

caggaatgtc tgccagggtc cagcctatag ccttcttatg cttcttaaga actgataaca 180

gcttctcctc ttgctcatca acaagggagg caaatataat tactggaaaa cttttgctct 240

catctaagta agcatatttt aaatttgatg gcagaggctt caattctggt gtgggcggct 300

ggatagtggt agaaagagat ggtttctcag cctgtacctc ataaagaaag tcagaggtac 360

gtgtacttcc tgaaacatgg ttagttctat ctgactntat aaaatcaatc tcaagaggta 420

aaacatcaga catgtgatca 440

<210> 5135
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5135

tcaacattca atatcgagcg tttcgatatg ttacgggact gaatcagaca tccgagtaaa 60

acgttactgt agtttgaagg tgctcagagc taaggcattc aagtccgagc gtctcgatat 120

actacgagac tcaatcagac atccgagtaa aaagctattg tcgtttgaat ttgctcaaag 180

cttcggtatt caatttcgag cctctcgata tattacagga ctccatcaga cacccgagta 240

aaaaagttat tgtcgtttga atctgcttgg agcttcaaca ttcaatttcg agcgttccga 300

tattttacag gactcaatcg gatagccgag caaaaagtta ttgtcgtttg aatttgctca 360

gagctttngt attcaatttc cagcatttgg atatattacg ggtctcaatc agacattcga 420

tt 422

<210> 5136
<211> 349
<212> DNA
<213> Glycine max

<400> 5136

agcttgccgc cacagagttt tccgactatg ctcttgtgtg gtggaacaag ctacaaaagg 60

agagagcaag aaatgaagag ccaatggttg atacatggac ggagatgaaa aatatcatga 120

ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180

cccaaggcaa caaggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240

caaatattga agaagatgag gaggtaacta tggctcgatt tcttaatggt ttgactaatg 300

atatccgtga tattgttgag ctgcaagagt ttgttgaaat ggattattt 349

<210> 5137
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5137

agcttcatac ttgcaacana ggagttgagc ttgtaaaaaa gattcgtctt caaactctta 60

gaggtgactn tgagcatttg tttatggagg agtccgagtc aatttctgat tatttttctc 120

gagtattggc cgtagtcaat caacttaaaa gaactggtga agatgttgat gaggtgaagg 180

tcatgaaaaa aatacttcga actttaaatc caagttttga cttcattgtt accaacattg 240

aagaaaacaa ggatttaaag accatgacta ttaagcaact catgggctcc ttacaagcat 300

acgaagaaaa acaaaagaga aaaattaaac aaaaggaggc tacggagcaa ctactacaac 360

tcaacgtata ggaagcaaac tatgcatatt acaagagcca aagaggacga ggtcgtg 417

<210> 5138

<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5138

agctngtagg ttaagtgaca gtgattggac tggagatgaa gatgatcgga aaagtactag 60

tggatttgtg tttttcatgg gggaacacaa ccttcacttg gatgtcaaaa aattagtcga 120

tagtcactct ttcaacttgt gaggcagaat acatagcaac tacttcatac atttgtcatg 180

cagtctggct taggaatttg ttaaaaaagt tgggcatgtc acaagaatag ccgaccaaga 240

tctttgttga tagtaagtca gccattgttc ttgcaaagac tccagtgttc catgatcgaa 300

gcaaacatat tgatacatgt taccactaca taagggagtg catagcaaga aaggatgtac 360

atgcagaata tgtgaagtct caagaccaag tagctgacat cttcaccaag ctgctcgagt 420

aagaagactt aatcaa 436

<210> 5139
<211> 409
<212> DNA
<213> Glycine max

<400> 5139

gagcgtctcg atatattacg ggactcattc agacattcga gtaaaaagtt attgtccttt 60

gaatttgctc agatctttga aattcaattt ctagcatctt ttatattacg tgactcaatc 120

cgacatccga gtaaaatgtt attgtcgtgt gaatttgctc agagctttaa cattcaattt 180

ctagcatctc gatatattac gtgtctcatc cgacatccga gtaaaaagtt attgtcgttt 240

gaatttgctc agagctcatt attcaatttc tagcgtctcg atatattacg ggactgaatc 300

agacatccga gttaaaagtt attgtcgtta cactatgctc aaaacttcaa cattaaatat 360

cgagcatctt gatatattac gggactcaat catacatccg agtataaag 409

<210> 5140
<211> 437
<212> DNA
<213> Glycine max

<400> 5140

tgttgtcatt aaatcttaca tgaattgcct cttccatagt caaggttttt gatttgtaca 60

ctctatatgc cttggatgat tcaaagtatc caatattcca aaatcacatt ttgagtcaaa 120

ctttccaagg ttatccttgg tgttgaagat gaaacactgg catccaaatg ggtgaaagtc 180

agaaatgttg ggcttatgtc cctcccacaa ttcataggaa gtctttttta agattgacct 240

tatataaatt atgttctgta aataataagc agtgattgct gcttcagccc ataagtgttt 300

cagagttaag tagtcgttaa gcattgttct tgccatttcc tgaagagaat ccattttcct 360

ctcaacaact ccattctatt gtgatagtct tggagtagaa acaatattat gaataccatt 420

ctcttcatag aattttt 437

<210> 5141
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5141

agaatcggac atccgtgtga aaagttatga ccatttgaat ttctcaagag cttccgttgt 60

tcaatttcga tcctctcgac atattatgca cccgaatcgg acatctgtgt gaaaagtcat 120

gatcatttga atttctcgag agtttccgat gtttaatttc gagcgtatcg atatattata 180

accctgaatc ggacctcagt gtgaaaagtt atgaccattt gaatttgacg agagcttccg 240

ttgttcaatt tcgaatgtca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300

ttatgaccat ttgaatntct caagagcttc cgctgttcaa ttctgagcgt ctcgatatgt 360

gatttgcctg aatcggacat ccgtgtgaaa agttatgacc atatggaatt ctcaagagc 419

<210> 5142
<211> 421
<212> DNA
<213> Glycine max

<400> 5142

tcttgagtgg gaagcacaat gagcctataa acattgtgca ttatgctgac gacacggtct 60

ttgttggaga ggcctcttgg gataatattc tagtgttgaa atccatgctt aggggatttg 120

aaatggtctc tggtttgaga atcaactatg caaaaagcca atttgggggc gtcggttttc 180

aggccaattg gactcagcaa gcagcccaat tcctgaactg tagacagttg gataccccctt 240

tctactattt atgcatgcct attgctgtta aagcttccaa catggtggtt tgggagcctt 300

tgtttaacaa attacaagcc aagctctcat agtggaatca gaaaattttg tctatgggtg 360

gtaaggttac cttgataaaa gctgtcctga gtgcactcgc tatatatctt ctatctttct 420

t 421

<210> 5143
<211> 321
<212> DNA
<213> Glycine max

<400> 5143

agctatacca gctggtttat tacaaccttt ttccattcca caaagaattt gggaggacat 60

tgctatggat ttcatcacta atctacctcc ctcacgcggt tatgctacta tatttgttgt 120

ggtggatata ctttcataat ttgctcattt tataccattg aaggctgctt ttaatagcaa 180

atctgatgca gatgctttca tttctaatta tgacaagatg catgggtatt caaatacatt 240

agtctttaat agagatcgta tttttatcat ttcatttcgg cagcagttgc tcatagcaca 300

tggaactata taggctatga t 321

<210> 5144
<211> 410
<212> DNA
<213> Glycine max

<400> 5144

cggaagctct cgagagattc aaatggtctt aacttatcac atggaagatc gattaatgcg 60

cataatatac cgagacgctc gaaattgctc aacggaagcc ctcaagaaat tcaaatggtc 120

atatcttatc acacggaagt ccgataaagg tgcatagtat attcgagaat cttgaaattg 180

aacaacggaa gctgtcgaga aattcgaatc gtcataactt atcacacgga agtccgattc 240

atgcgcataa tatatcgaga cgcttgaaat agaacaacga aagctctcga gaaatacatg 300

tggtcataac ttttcaacgg aagtccgatt aggtgcataa tatatcgaga cgcttgaaat 360

tgaacaacag aagctcttga gaaattcaat cgatcattac ttatcacacg 410

<210> 5145
<211> 287
<212> DNA

<213> Glycine max

<400> 5145

agcttgatat tgaacaacag aagctcacga gtatactaca ttggtcataa catgtcacac 60

ggaagtccga ttcatgtgca taatatatcg agacgctcga aatagaacat cggaggctct 120

cgagaaattc caatggtcat aacttgtcac acggaaggtc gattcaggcg cataatatat 180

ctagaagctg gaaattgaac aacgaaagct ctcgagaaac acaaatggtc ataacttgtc 240

acacggacat tcgattcagg cgcataatat atcgagacgc tcgaaat 287

<210> 5146
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5146

tcatctatnt tcctttagtt tctgttacgt gatctctccg ttttctaact tgaatatcaa 60

tatagacagt aataaacaca tttaaatatt aaatagtaat acctgagaca ggaatttata 120

tagcgattcc ccttggtagc tgcatcaagc actgcaaaac cacaaaatat gaatgattat 180

tatgattttt tttatgaatt tttaattaga gagagatgtg attgggaaat tacagcacca 240

gattcctgaa ggcgaccggt ggcatcggtg aagcactgca tgtgatggaa agaggtggat 300

gtggattcgg agagggccaa tcggagggaa gcgaagagag aagtgaaact ctgagcgatg 360

gccaacgagt ctc 373

<210> 5147
<211> 377
<212> DNA
<213> Glycine max

<400> 5147

tggaaggtag tcatacctta caaaacatat atatgtatgt ttaggtagtg aaaatacctt 60

agatatgcat gtatgtaaac aaaaaaacac ttcacaaaat atatatatgt atgtttaggt 120

agaaaaatac cttagatatg catgtatgta aacaaaaaac acttcacaaa atatatatat 180

gtatgtttag gtagaaagat accttagata tgcatgtatg taaacaaaaa atacttcaca 240

aaatatatat gtatgtttag gtagaaagat accttggata tgcatgtata tagcaaaaat 300

accttacaaa acatatatat gtatgtttag gtagcaagat accttggata tgcatgtata 360

tagcaaaata cctcatg 377

<210> 5148
<211> 344
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5148

agctntatga taggagtgtg aagcatgtgt tcattggtta tgatgcaagt tcaaaaggct 60

acaagttgta caatccatac aatggaagat tgttgtaagc ataaatgcta aatttgatga 120

agaagagaca tggaattggg agaaaaaaga agccccctat gatttatttt cttattttga 180

agaaaatgat gaattaagtg tagcaccaaa tgagatttct actccacctc ctatacaaac 240

tcattcaatt catgaagcat catcttctga agggagttaa agtgaaagac caagaaaaat 300

gagaagcctt ctagacatat ctaatggatt gtttgaggtt tatt 344

<210> 5149
<211> 410
<212> DNA
<213> Glycine max

<400> 5149

agcttaactc tcaaattccc cttcatccca tgctcttttg atataggcat tccttcatta 60

gggacaacaa cctcagcacc aggtttgaca atatctgtca atgggatcat gagactcctt 120

ccgtccaagg tggtgagatc caacgtttta ccagtaaggg cctcaagaag ggttatctct 180

tggttgatca ccaaatcatt accatccctt ctataaagag catgcggctt ctcatctatc 240

acaaaaatga gatctgctgg gatgacacca ggctcacggt tacctttctc tgggaaggta 300

atttttgttc ctttcttcca gccaggtttt atctcgatag tcaaaatctc ctccacatcc 360

ccacatttgc tgaaatggaa ttgcatgtgt caaatattgt caaaaaacac 410

<210> 5150
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5150

agcttcctct tatgagtgca tagctctttc ataaatttag catatcttgg aatatgcttt 60

attgcatcca gtagaggtat gtttacctct actcttctaa atgtttccaa gatctccttc 120

tccgcctctt ccattttctt gttggaaatt gctcttggtg ggaatggaag agggatatgc 180

tactactgta agtcagaatt accagtagaa gattcacctg catagaaatt gttaggcaac 240

ttactcttta aatttttgtc atcatctttc tctggagttg agtgaggttg ggcaggttca 300

tttgcagatg aggaagatgc tactagttga ggtccttgat actgttttcc caacctcaat 360

gtaattgcac tcacanttt gggattctgt acagattgag aaggtaatct gtcagaattc 420

tgggactgtt t 431

<210> 5151
<211> 433
<212> DNA
<213> Glycine max

<400> 5151

tctcagatct ggtcatggaa agacttggct actgccttca ttaggaagta ccaatacaac 60

acggatatgg ctcctgatcg gaaccaactt cagagcatga ccaaacggga acatgagtcc 120

attaaagaat atgctcaaag gtggagagac ctagcaatcc aagtcatccc acctatgacg 180

gagaaggaaa tgatcacaat tatgataaat acgttgccta cgttctacta cgagaagctg 240

ataggatata tgccggctaa ctatgcaaac ctcgtctttg ccggagaaag aatcgagtcc 300

ggactgaaga aaggcaagtt tgaatatgac tccaacgctg cccccacaac aatagaagag 360

ccccattggt gggcacacgc gaaaaggaag gagataccca cgcagtcacc actcgcccaa 420

catggatgaa aac 433

<210> 5152
<211> 394
<212> DNA
<213> Glycine max

<400> 5152

agcttaaagg aagtgaacga attagtatgg tcagaaatgt ctccgcattg attggtaaat 60

ctgttcctca aattcctgaa aaatgcacag atccaggtac attcagcata ccttgtatta 120

tagggaatag taagtttgac aatgccatgc tagatttagg agcctctgtt agtgttatgc 180

ctctgtcgat ttttaattct ctatctctag gtcccttgca gtcaactgat gtggtaattc 240

atttagctaa tagaagtgtt gcctatcctg ttggtttcat agaagatgtc ttaattagag 300

ttaatgaact gattttccgt gttgatttct atatcttgaa tatggaagat ggattttctc 360

aaggatcacg tcccatcatt ctaggcagac cgtt 394

<210> 5153
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5153

ntgagccaat tcaaacgaca ataactnttt actccgatgt ctgattgagt cccttcatat 60

atcgagacgc tcgaaattga atgctgaagc tctgagccaa ttcaaacgac aataactttt 120

tactcggatg tctgattgag tcccgtaata tatcgagacc ctccaaattg aatgttgaag 180

ctctgagcca attcaaacga caataacgtt ttactcggat gtctgattga gttccgcaat 240

atatcgagac cctcgaaatt gaatgttgaa tctccgagcc aattcaaacg acaataactt 300

tttactcgga tgtctgattg agtcccgtaa tataacgaga cgctcgaaat tgaatgttga 360

acctctgagc caattcaaac gacaataact atttactcgg atgtctgatt gagtcccgta 420

atatat 426

<210> 5154
<211> 361
<212> DNA
<213> Glycine max

<400> 5154

agcttcaaca ttcaatttcg agtgtctcga tatatgacgg gactcaatca gacatccgag 60

taaaacgtta ttgtcgtttg aattggctca gagcttcaac attcaatatc gagggtctcg 120

atatattgcg ggactcaatc agacatccga gtaaaaagtt attgtcgttt gaattggctc 180

tgagcttcaa cattcaattt cgagagtctc gatatatgat gggactcaat cagacatccg 240

agtaaaaagt tattggcgta tgaattggct cagagcttca acattcaatt gcgagggtct 300

cgatatatta cgggactcaa tcagacatcc gagtaaaaag ttattgccgc ttgaattggc 360

t 361

<210> 5155
<211> 415
<212> DNA
<213> Glycine max

<400> 5155

agcttaataa atctatatat ggtttaaaac aagcttcccg tcagtggtac cttaagtttc 60

atgggataat ttcttcattt ggttttgagg aaaaccccat ggatcaatgc atattccaca 120

aggtcagtgg gagtaaaata tgtttccttg ttttatatgt agatgatatt ttacttgcag 180

ccaatgatcg gggtttgcta catgaggtga aacaatttct ctctaagaat tttgacatga 240

aggatatggg tgatgcatct tatgtcatcg acattaagat tcatagagat agatctcgat 300

gtattttggg tctatcacag gaaacctata tcaacaaaat tgtagagaga tttcaaatga 360

aagattgttc accaagtgtt gctcccattg tgaagggtga taggtttaat ttgaa 415

<210> 5156
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5156

agctngaagg tgtgtaaccc accattttcc atagtataat actggtaatg tgtctactat 60

cagtgttatc atttttttctc cgtcattgag gtgccacttg agctgccagg tctctccacc 120

tttgggcgta ttctttgaat gatctgtgcc ccttttttgca catgttctat agttgcatcc 180

tatccgaaga cattatacta gcactgccta acgaaggcaa ccagtaggtc cttccaagaa 240

tggactcgag aaggttccag gttagtgtac caagtaacag ctaccccagt aagactctct 300

tggaaggcat gtatcaacaa ttcctcatct tttgcgtatg cccccatctt ccgataatac 360

atctttatat ggatcttggg gcaagtagtc cgcttgtact tgtcaaagtc caacaccttg 420

aacttggg 428

<210> 5157
<211> 289

<212> DNA
<213> Glycine max

<400> 5157

cgcataccaa atgttcacca ctactagagg atataccttc ttcatgttgc atatgaatct 60

cctcctctaa atcaccattc tgaaagacta ttttcacatc catttgttgc aactcgaggt 120

ccacatgagc aactaatacc aagatagtct gaagagaatc tttcttagat ataggagaaa 180

aagattgtgt gtagtcgatt acttctattt gagtaaattc tttagcaacg agccttgcct 240

tgtatctctc aatgttgcct aatgaatccc ttttggcctt aacgactca 289

<210> 5158
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5158

tcaacatcag accacttcca gggtgctgga actacttcac atggacttga tggggcctat 60

gcaagttgaa agccttggag gaaagaggta tgcctatgtt gttgtggatg atttctccag 120

atttacctgn gtcaactnta tctgagagaa atcagacacc tttgaagtat tcaaagagtt 180

gagtctaaga cttcaaagag aaaaagactg tgtcatcaag agaattagga gtgaccatgg 240

cagagagttt gaaaacagca agtttactga attctgcaca tctgaaggca tcactcatga 300

gttctctgca gccattacac cacaacaaaa tggcatagtt gaaaggaaaa acaagacttt 360

gcaagaagct gctatggtca tgcttcatgc caaagaactt tcctataatc tctgggctga 420

agccatgaac a 431

<210> 5159
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5159

tgctcttctg ctgtcaaata tgaacttcag ttcatcttct gctcatgtac taacanagaa 60

ncttgcaatt catcaaggga gggtgcatct atatctttgg actcttcaat tgcacaaaca 120

acataatcaa acgttggtgt tacggatcgc aaaatctttt ctacaatggt gacatctttc 180

atcttctcgc catggaatca catcatgttt cttatctcca ttgttcttgc aaaatagcta 240

gaaatagatt caccatcctt cattgctaat gtctcaaaat ctcttcttaa gctctgagct 300

gtgcacgctt cactctagca gaaccttgat actttttctt catagaatcc canatgtcct 360

tgaaagtttc tctgc 375

<210> 5160
<211> 359
<212> DNA
<213> Glycine max

<400> 5160

agcttgtaat cgattacaca tatactgtat tctattacca gagcagattt tcagaatata 60

ttctcaacag tcacatcttt ttacgtggtt cttgaatggc tatcaaaggc ctatatatat 120

gtgacttgag acacgaattt gctaaaagtg ttttagaaca aaaaggtctt atccttctta 180

tagagcaaaa tcgacttatc ctcttacaaa ttccttggcc aaattacttg tgattcaata 240

acgaattatt tgagtgctca cattgtacaa tctatctctt ttaagagaga gtacttgttc 300

tcttcttctt cattctgaaa agggattaag agactgaggg tcttcttttg ggaaagaat 359

<210> 5161
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5161

agctnnttag aaatatttta ataagtatta gaaaataata ttactagaga ttaggtgtgt 60

taaagttagt tggactattt tgtatacaga aatattttat ataaaggacg tcgaagtatt 120

gcttatattc ttaattatat atttcttata ttctaaaaaa tgtgtgagat taatttcttt 180

attattcaat ttataaatta tttgaaatac atgcatggat cggaatgcaa gttgaatacc 240

caaaatgtta gttatataaa cataaaatgg tttataacac ttctattact tacttgactt 300

aatgtttaac actttaacta aaggatattt caaaaagtgt caatgaataa acaaatagat 360

aagatcacgt tcgagttctt taattactcg gaagtgcaca acagaaagta ngtttgactg 420

ttg 423

<210> 5162
<211> 439
<212> DNA
<213> Glycine max

<400> 5162

tgtgttgcaa aagttggtgg tattcataca aagatgggtt tgagcttaga tgtcattact 60

aggtggaatt ctaattttgt gatgcttgag agtgcccttg tatattgatg tgctttttgt 120

agtcttgcaa ttgatgatag gagctattca agttgtccta ttaatgaaga atgggagaga 180

ggacaaaaaa tgtgtgattt tttgcatcct ttttttcaaa tcacagagtt gatatctggt 240

tcctcttacc caatgtctaa tttgtatttc atgtaagtgt ggaaaattga atgtttattg 300

cttcaaaatt tgagtaataa agatgagttg attagaacaa tggcaattga tatgaaaaca 360

aagtttgata aatattggag tgattatagc aatgtgcttt cctttgggtg cattctagat 420

ccacgctcta aaataaaaa 439

<210> 5163
<211> 440
<212> DNA
<213> Glycine max

<400> 5163

cgtcttgaca tattagaagt ttatacacat gataaaaaca ttctgaagaa ttgcttatga 60

ttaatagcat gttttcgtta tatttctttt aataaaaaga gattttaagt gaattagtaa 120

ttagtgagga tagaagtaaa aagaaaaaaa gaaaaaggaa aaaagccagt aatatgtaag 180

ttataagcta gttgaagtaa taagccaaaa attacataaa taaaatagca taatgtatat 240

ctaataaatt tattttgatt aaaataacta gtcaaactaa cttatactag agtgttgtgt 300

taaacacaat tggaaaaaat tgttgacggt aattattatt taaatacgtt tatgatttat 360

attattatca aaaattataa tcttaataga aggaaaaaaa caacacctta atggtttaaa 420

gctattgaaa gcaaagaaaa 440

<210> 5164
<211> 435
<212> DNA
<213> Glycine max

<400> 5164

tgttcttaag caaaagctaa ctaatgcccc catacttgcg ttgccaaact ttcaaaaatc 60

ttttgaaatt gagtgtgatg cttcaaatgt tgggattggg gctgtgttga tgcaagaagg 120

ccatccaatt gcttatttta gtgaaaagtt aagtggtcct acccttaact attcaactta 180

tgataaggag ttgtatgcct tagtacgggc tttgaaaaca tggcaacact acctttatcc 240

caaggaattt gtcattcata gtgaccatga gtccctcaaa tatatcaagg ggcaaggcaa 300

gcttaacaaa aggcatgcga agtgggtgga attcctatag caattcccct atgttatcaa 360

acataaaaag ggaaaaggta atattgtagc cgatgctctt tctcggcgtc atgcattact 420

ttctatgctt gaaac 435

<210> 5165
<211> 397
<212> DNA
<213> Glycine max

<400> 5165

agcttgaaat tgaacaacgg aagctctcca gaaactcaaa tggtcataac ttatcacacg 60

gaggtccaat tgaggcgcat aatatatcga gacgctcgaa attaaacaac gaatactctc 120

gagaaattca aatggtcgta acttatcaca cggaagtccg attcaggtgc ataatacacc 180

gagacgctca aaattgaacc acgaatgttc tcgagaaatt caaatggtca taaattttca 240

aacggcagtc cgatttaggc gcataataca tcgagaatct tgaaattgaa caacggaagc 300

tatccagaaa ttcaaatggt cgttactcgt cacacggaag tccgattcag gcgcataata 360

tatcgagacg ctcgaaattg aaaatcggaa gctctcg 397

<210> 5166
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5166

ggatccttaa gtcacctgcg gcatgcaagc ttcanattat ggtggttcag ccgaacagta 60

cgaggctgca gaagatcaat ttacaaaatt gtgaatatta tgacatcacc aacatcatat 120

acatctgcaa atttcttgtg agtagatcaa attcattctg cccaaaattt tagcacaact 180

caaagtgtgc agactgcaga agcaagccat acctgaaaaa gtgtcattgg aaaagagtgg 240

tgaatttccc tgcctttgat ttcatctggc acaatgtttc tactaatgga tatgttaagg 300

taactataca tcaaagccaa aaacttggca atgaccaaag cttcataaca ttctttaact 360

gactccaaaa aggtgaaaaa ctccttgctt cctctgatat ccaagagacc cacaaaggag 420

acagctgcat agattggagc catgaggatg ataatgataa t 461

<210> 5167
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5167

ntaccctctc ttataacatg cagaattcga aaattccact acataaagac aaatgatcta 60

atatggttga ccagatgagc ataaatatga caggaactca ctccaaggga aatcatgtcc 120

acaacaagct nggagtcata ttcacaaatg atgcttgtaa cacccttatc ccacgcaatc 180

tgcaaccctt gagcaatggc aagcaacttc gcattcagac tcattgtgaa gcggcaacaa 240

ccaaaaaaac tgagaaatca attacccaaa ttatcacgaa tcaatctgtc aattccagcc 300

tgactcggat tgcctaagga gcttctatca gtgttgagtt tgtaatcaaa atcaaccgga 360

ggagaccaac acaccatacg actaggaaga cttgagatat tgtgatgag 409

<210> 5168
<211> 424
<212> DNA
<213> Glycine max

<400> 5168

agctttagaa ctagcatgat atgccatgaa ttcttcatac acactttcaa gatcaggagc 60

tctttcttct tcataattga aattctgata ccaggggaca gatgtcgtac cggatgtcac 120

gacatcacgc ttcagaacat gcagattata tgtgtccgta tgaacagatt aaacaagtaa 180

ataacaccag agaattgttt acccagttcg gtgcaacctc acctacatct gggggctacc 240

aagccaggga ggaaatccac tctcaatagt gttagttcaa ggtctaacag cccctgttta 300

caaccttctc acctaaccac tacccgtgcg atctctacct aagagccact cttagatatg 360

agaaccttcg ctcactccct ctcactcaca ctcccgtgtt tacaattaag tcaaagacac 420

acca 424

<210> 5169
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5169

agcttggaca ggaggataag gatgatacct gataacttta tgcccacccc ggatttcgac 60

attttcaact tgaaaaaggg tttaggggtg ggggagttta aaaaaagcat ttaatcggaa 120

tgcattgata gtttaggtat tttataatga aatgcaatat atagtaatat tgttgctttt 180

tctaacaatt cttttaaaag ttatatttga gatgattttg taaaaatcat tatagtaaat 240

tagtaatgta tcaaaattaa aattttaaaa atatgttgag gcatgattta atttatgtta 300

ttntatcaaa ataaactcta aaatttattt taagaagctt taaggtcaaa attataatat 360

aaacttttta gtgatactaa actcgttcat tcatgatttt ntgttgtgtt tcaaaattca 420

cttttactaa 430

<210> 5170
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5170

cgaggttaat cgtaaaactg caaagacatg accttgtgag aggtttacca agaatgtcat 60

acaaagttga tttactttgt gaagcatgtc acgagaggaa acaaattaaa acctctttct 120

caagcaaaaa ctctatttcc acctaaagac cacttgaatt attacatatc aatttgtttg 180

gtccaactag aacaacctct gtcagtcgaa agagatatag tctggtagta gtggatgact 240

actcaagatg gacatgggtt atgttccttg ctcacaagaa taattcctta gagatcttct 300

ttaaattcta taaaaggatt caaaatgaaa agggagtatg ccttacttca ataagaagtg 360

atcatggtgg agagtttgaa natgagaact ttcatcta 398

<210> 5171

<211> 423
<212> DNA
<213> Glycine max

<400> 5171

tagctccata ctcgaaggtg gaggacacat gaacagtgct atgcaatgac attcaagggg 60

cttcgaataa agtggagaat ggaggattgc acttgagggt ccacacttat gcaatcatga 120

agtatagctc caaactcgaa gatggaggac acatgaacaa cgctaggcaa tgacattcat 180

ggggcttcga aaaaagtgga gaatggagga ttgcacttga gggtccacac ttaggcaatc 240

atgaagtata gctccaaact cgaatgtgga ggacacatga acaacgctag gcaacgacat 300

tcaaggggct ccgaaaaaag tggagaatgg aggattccac tttagtgtcc acactaaggc 360

catcatgaag catagcttcc aactcgaaga tggaggacac atgaacagcg ctaggcaatg 420

aca 423

<210> 5172
<211> 440
<212> DNA
<213> Glycine max

<400> 5172

tgagactgag tgaacgatcc atgatatcac catattattg catcttttcc atgcagaatg 60

cagaggatgg gtaatgactg gttgtgagat agttccatcc acaaattcaa ccttgttatt 120

tgcactcaga gtagtaagca ttgaacgact ccgaggatta taattcggtg gatcaagaaa 180

tggagataca agcgttattg ctgaactttc actagggtga aggtaatagg aactatgaac 240

attcaaagat tggtcagttt ctgtgttcat gttcaatcaa tagagtagag attctcttga 300

aattgaggaa gatagaaaga aatttcaaag aatcgaacaa accgaaaatc gcagaagcag 360

agaatggacc acataagcga aaacagagtg tgaaaaaaaa atgatgcgaa gagtggcaca 420

tcagacctct tcaatcgaag 440

<210> 5173
<211> 369
<212> DNA
<213> Glycine max

<400> 5173

cttgatggtt gtgttgaatg cattaaaggt aatcaaacca atagcaagaa attaagtgca 60

tatagggcta caaacatctt ggaattgata catacgaata tgtgtgggct atttcataca 120

ccttcgtgga atggtcaaca atattttata tcattcatag acaattactc cagatatgca 180

tacttggttc ttatacatga aaagtcacaa tctctggatg tgttcaaaac atctaaagtt 240

gaagttgaaa atcaactcaa caaaagaata aagtgtgtca gatcttaccg tggtattgct 300

ccaagaacat gaggaaaata atggtatgat ggaaaatgac ccataaaata agggtagaaa 360

ctttgtctt 369

<210> 5174
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5174

ntggccgatc catatcctcc accaagaata tttnttgata gatattcttc acctcccatt 60

tcactttctt aggatccacc tcctaaatcc catcaatatg tagaccccta tgtagatttt 120

tccttctcct ccaattaata gtaccatgga agaatattga gttgttgtct ccttccacta 180

accatctaga tctagatttt tgtcttagaa atgactcatt cctccttgcc aatatccaaa 240

attgctcttt caaatctatc ttcatgttca attcactctc caccaaaact ctagcctcct 300

caagcttatc caactcattc attttcaagg caatctcttt ctgtgatgaa tgaaagtctt 360

caaaacatgt agcattccac tctctaagca ccttctagag gccttttaga tttcactgag 420

gacatat 427

<210> 5175
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5175

agctngctcc atataaatat atatatatat atatagaggt atatatatat attgaggaga 60

aagataattc aaggaaacaa ttcctatgat gagataagta gattatgatt atgatgatgg 120

caagttcaag agaaggtcgt caagcaaagc aagagggtga caccactaat attgacaagt 180

tctcccaggc atcgtccact tcaagacaat ggtcagcttt cataaatcca agaattgtga 240

gagtgtcacg ttcttttgga gggaaagata ggcatagcaa ggtttgcacc ataagagggt 300

tgagggacag aaggattatg ctctcagttc ccacagcaat acagctatat gatcttcaag 360

acaaacttgg actaagccaa ccaagcaaag tgattgattg gttgcttgaa gccacctaaa 420

ttgacattga 430

<210> 5176
<211> 426
<212> DNA
<213> Glycine max

<400> 5176

agctttaaga gaagttgcaa gagaaaagac tacagcctca atgtggctga aactagagtc 60

attgtatatg acaaagtccc ttgcaaatcg actatgcttg aagcaacaat tgtactcctt 120

caagaagaca gagtcaagaa cagccactga acaattggct gatttcaaca agattcttga 180

tgatttggaa aatattgaag taaagcttga agaggaggat aaagctcttt tgcttttgaa 240

ttccttacca aaatcctttg aacatttcac ggatgcaatt ctttatggca aagatcaaga 300

cattgcccta gaagaagtcc aaacctcaat aaggaccaag gagatgcaaa aacagcaaga 360

ctccaaatct gaggataatg gtgaaagcct gaatatttca aggggaagga gtgaaaagaa 420

ggaaca 426

<210> 5177
<211> 531
<212> DNA
<213> Glycine max

<400> 5177

tatgctgcaa acatttataa tagacctcct cagcagcaaa accaacaaca gaaaaataat 60

tatgaccttt caagcaatag atacaatcta ggttggagga atcatccaaa tctgagatgg 120

acaagtcctt cacaacaaca acagcttatc cttcctttct agaatgctgc tggtccaagc 180

aagccatatg ttcctcctcc aatacagcaa caacagtcac aaaaaagaca acaagcaatt 240

gaggctcctc ctcaaccttc cttagaagag ttagtgaggc agatgaccat ccagaatatg 300

caatttcagc aagagacaag agcctccatt cagagtctaa caaatcagat ggggcagatg 360

gctactcata tgaaccaagc tcaatccaaa ttctgacaaa ttgccttcat aaactgtgaa 420

aaatccaaaa aaatgtgagt gtcatcacct tgaggtctgg caaccaaatt caagtgccta 480

caccagtagt agcagctgca cctgaacctg tcaagctata ttctacacct g 531

<210> 5178
<211> 564
<212> DNA
<213> Glycine max

<400> 5178

tcatgatgaa tcaagattga ttcaaagagt tttgatgata acaaagatga tgaacacttc 60

atgataacaa agatgatgat cttaagaatc aaagaatgag ttcaagattg aatcaagtac 120

acttcaagga tcaagaggaa agttgagttc aagaatcaag aatcaagttt caagattcaa 180

gttccaagaa tcaagatcaa gattcaagac ttaagattca agaatcaaga gaagacttaa 240

tcaagataag tattaaaaag ttttttcaaa aactgagtag cacatgaatt tttctcaaaa 300

cctgttcacc aaagagtttt tactctctgg taatcgatta ctagattatt gtaatcgatt 360

accagtagca aaatgctttt caaaaagctt tcaactgaat ttacaacgtt ccaattgatt 420

tcaaaaagct gtaatcgatt acaatgtttt ggtaatcgat taccaatgtg cttgaacgtt 480

gaaattcaaa ttcaaatgtg aagagtcaca ttctttcaca aagaaacttt gtgtaatcga 540

ttacactgat ttgggaatcg atta 564

<210> 5179
<211> 542
<212> DNA
<213> Glycine max

<400> 5179

ttataccgat atgggctcaa aacggcagca ggtatcttca gtttccgagt aagtggtctc 60

cagggtctgc tcatcaattc agttggctga acaacatcat cctctttttc atttccaaaa 120

ccaccttcct ttggccatat agcattgcca tagccatagg tgccctttgt ttcaaagagc 180

cacctattat gatcaaaatc tccagtttgg ctcctcatta gtgccgactt tgttgatttc 240

atcatggaca atctcctctc cattttagac attccacttg gtggaggaag tggaagggga 300

cgtccattat ctacagccac ttcatctagc tctgtgttct tgtatggctc cttgcatcct 360

gggcatatac cacctcctgg ttttacagca tctatataac aatctctgca tatcttgaaa 420

tcacactcac atgggagaat atcagcacca cgttcatcgc tcatcacctt agaatcacaa 480

ccaggaattg cacatgaaga tcctcttgca ccagccatct gcggatgatt tgcttcagat 540

tc 542

<210> 5180
<211> 510
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5180

agcttggcaa caggtgaaaa agtgtctgaa aaatctattc agcttgttg tgtgtaggct 60

ttagctacta attgagcttt gtatctgtcc actaccatta ggtttatatt tgagcttgta 120

aacccatcta tatccaatac agtgcttgtc agtaggtaaa aagactagag acaagtgtta 180

tttgcttcta atgcttaaat ttcttcagtc ataacttgtc tccacttagg gtatggaatt 240

gcttgatgat aaaaccgtgg ttcataagta gtggagattt gattgatgaa gttgtgataa 300

gatgagctaa gtcgagccat gaaacaataa tgtcatatta gatatggttg agaagacgcg 360

aagtagatga aattagacaa gtaaaaaggt ctcttatgct ttctggatga ccttctaaga 420

atttttttgtg gtggcataga ctcaaaaact ctanttgaag aagtggtagg aagagggaca 480

ggatttgacc gagtctttgt tgattgagca 510

<210> 5181
<211> 478
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5181

agctttcaac ttattgtgat gtattaaacc atccaaaaag ttggtgtgat gatgcttttc 60

caaaatagat tatggtcaaa aatcctgcat ccactatata cattattatt atcaacaaga 120

tttaatgtcc tgattaattg tataaagatt taaaaagatt agcacgtact acagattttg 180

aaatacttcc ttgaaaatca cattggtagn tatatttcat agttttcctt ctttatcatg 240

aatcagaatt ttcaatatac ttttactttg aactcttgag aatgccacat aaagttggcc 300

atgactgaaa actggtttag gtagatataa cccaaccgat tcaagagatt gtccttgaga 360

tttatagatt gtcatgacat atgaaactat aattgagagt ngcttctaat catcttgaaa 420

ggccaggaga atgagatggt gataatgaca ttcatggaac atacaccaaa ctacctat 478

<210> 5182
<211> 426
<212> DNA
<213> Glycine max

<400> 5182

cttgcacttg agtgatgtag ctccttgtag agcttgtaag cctttttttt tcttcatcaa 60

cggagtcctt tgcttcttga agattacatg gggtggaatg gagatggaat aatgatgact 120

tggagatgcc actttctgga gaagattagt caagaagaag ctcaccacca tatgctgcca 180

ttgataacat ctttcaagtt atatccttgg actgctggac tgggtttatt tgtgcacaat 240

atttcatgcg tctaaagctt gctgcacttt gcccattttg tctcctatga tcggggttga 300

attaaggctc acacctgacc actatttata gcctcagtgt cacacaaaat tctacggata 360

gcttaatttc tatccaaagt tcacttgagt ttgaaattga atttgtgcag ccaaattttg 420

gaacca 426

<210> 5183
<211> 519
<212> DNA
<213> Glycine max

<400> 5183

agcttatcat gagagatatg tcctaaccta ttatgccaaa cattgcattt attgaaaggg 60

atggtattga ttttacaagt gtaggacaac tgagttggtg atgaagatag gatgtataag 120

ccaacactta attcagctgc tccaatcgtc ctcaaggagg agttgtcctg tatagaacaa 180

ccagtagggt gaaaaatcat actacaatgt agattagcta tgagtcttga aactaaaatc 240

aagttgaatg tgaaagaagg aatatacaag acatcagtga ggtaaagttg atcattaaaa 300

tgtatagtgc ctgccaaatt ggtttgaatt tgagatccat caggtagttt aacaagtata 360

ggtctaattt gcttaaggca ttgaaactga gtttgggaaa aacacatatg atcagtagct 420

ccactatcca aaccccaaga gtttatgttg gaactataag catgaagagt ggcacagaaa 480

atacctgaat tctcattctt atgagagcta accaactga 519

<210> 5184
<211> 319
<212> DNA
<213> Glycine max

<400> 5184

tgcacttgag gtatcaaaac cagtgggagg atctacatat actttctctt ggataaaacc 60

attcaagacg gcacttttta catccatttg gcaaagccaa aaatccatta tcgatgccta 120

tgctaataat atccttatcg gcttctaatc taccaaccgg agcatgtgtt tcctcataaa 180

ccaacccttc taggagacta tatactcgga ctacataacc catattgatt tgcaaggact 240

atagaaaact aataccacta gctgataaat acccattttg ctacgataac aggataataa 300

gcaggcttct cgactaatt 319

<210> 5185
<211> 597
<212> DNA
<213> Glycine max

<400> 5185

tcaagatgtg atgtagctcc ttgtagagct tgtaggcctc ggatcttctt catcaatgga 60

gtcctttgct tcttgaagat taatggcagt ggaatggaga tggaagaatg atgattggag 120

atgccacttc aaggagaaga ttagtcaaga agaagctcac caccatagga agccattgat 180

aagagcttga aagtaagaga aaaggagtgg agggaaaggg agagaaggag cacgaaattt 240

tatgcgtcaa aagtagtctg aactttgaag tttaattctc aaatgatcaa agttgaaaaa 300

atgcacacac atgaccacta tttatagcct aagtgtcaca caaaattcga gggaaatttg 360

aatttctatt caaattttac ttgagtttga aattgaattt gtgcagccaa attttggaac 420

caaaatttca ctaattatga ttagtaaatt ttagctatgg ttcagcccac taatccaaga 480

tcaagtccaa gattctccac taaatgtgct taggtgtcat gagacatgta aagcatgaag 540

gacatgcacg gagtgtgact atatgatgta acaatggggt gtagcaagca aatgctc 597

<210> 5186
<211> 463
<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 5186

agcttctatt tcaactgagc tctttatatt tcgggaagag aaatcaactg ctgagagaaa 60

ggtaattcta tgttataatt gaaattaaac caatttacag ttatctgttc aatattgaaa 120

tccccaacct agttacccta aaattattgt acattggtag attctatatt atgtttatcg 180

cttaccaact tttgtaccct acttctgatt ctgctgcgtt ttgcatgcca tttcaaatga 240

ggacttgtac aaaagatcac aagagtataa tatgagtctg ctacagtaca atagtcgcct 300

tcagtcggat cttgaaataa ctaatgaggc acataaacga ttggagacgg agaaagcaac 360

cattgttgaa aacctancaa tgtgagaggc cacaacaagg cattacagga ccaggtgcca 420

tctcttaaag taagttgttt tgtttgatta ttgattttaa tgc 463

<210> 5187
<211> 559
<212> DNA
<213> Glycine max

<400> 5187

tggaggtaaa ctagatgcct tggttaacct ggtaacccaa ctggccatga ataaaaaatc 60

tgcacctgtc gccagactct gtggtttatg ctcctctacc gaccatcaca caaacctttg 120

cccttctgtg caacaatctg aagcaattga acagcctgaa gcttatgctg caaacatcta 180

caacagacct cctcaacctc agcagcaaaa tcagccacaa cagaacaatt atgacctctc 240

cagcaacagg tacaatcccg ggtggaggaa tcatcccaac cttagatggt cgaatccttc 300

acaacagcat cagcaacaac aaccttattt tcaaaatgtt gttgaaccaa gcagaccata 360

tgtctccacc aatccagcag caacaacaac aacagcccca gaaacaacaa acatttgagg 420

ctcctccgca accttccatt gaagaacttg tgaggcaaat gactatgcaa aacatgtagt 480

ttcaacaaga gaccagagcc tccattcaga gcttaactaa tcatatggga caatgggcta 540

catagttaaa tcaacaaca 559

<210> 5188
<211> 563
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5188

tgaccaggaa ttatttggat gggttggatg tggaattcag gttgttcctg gtgcggagat 60

gatggtactg tgggtgaacc agaagctgca gtttcttttg gtgaggtagc catggaaaag 120

cagagcgttt gaaatgattt cgtaaatctc agaaggctat tgggaaatgc tggtaaaaac 180

acgaatgcca agcagatata aatttgaatg aagaatgtag aggggcgtgt gaagcaacgg 240

tcgaatttgc tttgtagtga acgtgctatt aatgttaagt gattcgtttg ggcacgttca 300

gattgcagta gctgctataa ttcctctagc agacaaatgc ccagcttgcc cctcagtttt 360

tcaaactgat ttgcatccaa agcctttgtg aaaatatctg ctatttgttc ctcagtgtca 420

acatgcttca gtgtgatcac tttatcatca acaagatctc tgatataggg atgtctaatg 480

tcaatgtgct tggttctgct gtgttgaaca ggattcttag anatattaat agcactcatg 540

ttgtcacagt acaatgtcat gac 563

<210> 5189
<211> 497
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5189

agctngtaga aaattcaaac aggaataact ttttactcgg atgtctcatt atgtcccgta 60

atatatcgag atgcttgaaa ttgaaaacgg aagctcgtag caaatgcaaa acacaataac 120

tttttactcg gatgtccgat tgtgtctcgt agtatatcga gacggtcgtt attaaaaaca 180

taacctcgta gcaaattcaa atgacaataa ctatttactc gaatgtttga ttgtgtccca 240

tagtatatcg agacgctcgt aattgaaaat agaagctctt agaaaatttt aacgacaata 300

acttttttact cggatgtccg attgggaccc gtaatatatc gagacgctgg aaattgaaaa 360

cataagctct taggaaattc taaagacaat gacttttac tcggatgtac gattgtgtcc 420

cgtaatatat cgagactctc caaattgaaa acaaaagctc ctagcaaatt caaactacaa 480

taacttttac tcagatg 497

<210> 5190
<211> 620

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5190

tgtgactctt ggcaatttct ttaaaactag tcacttaaaa agttgaattt tgaaaaaatc 60

ttcagaaaca agtcacttga agaattgtga cttttggaaa tttatttttc gaaatcaaac 120

actggtaatc gattaccatt aaggtgtaat cgattacaca tcagcaaacg tgactcttca 180

ttttaaattt tgaaaattaa aacatttaga agctctagta atcgattaca caagtttaaa 240

atgatttgaa aatgtttaaa cacaagttgt aactcttgaa atttgaaatc ttaacatttt 300

aaaacactag taatcgatta ctaccttctg gtaatcaatt accagagagt aaaactcttt 360

ggtaatgatt ttgtgaaaac ttcttgtgct actcaatgtt ttgaaaaact cttttagtac 420

ttatcttgat tgagtcttct cttgattttt gaatcttgat cttgattatt cttgaatctt 480

agatcttgaa ccttgaaact tgattcttga atctttgcta gaaactgtgc ttaactcttg 540

attctttggc ttcatcaaaa taaccttgga agacattgct tncacaatct ccccctttnt 600

gatgatgaca aatctgaaat 620

<210> 5191
<211> 577
<212> DNA
<213> Glycine max

<400> 5191

tctttgagaa aacttccttg agaagctgga gcttagctac tcacacccct gtcataacta 60

agctcacctc cttgagaagc ttccttaaga agattcctaa agaagcttga gcttagctac 120

acatacctct ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180

cacccgctat aatagctaag ctcaccccca tgacagaaaa cgtgagaatg ccacaaaaag 240

tccttactac aaagactact caaaattccc cgagatacaa ggctaaaacc ctatactact 300

aaaatggcca aaatacaagg cccagacgaa ggaaataact attctaatat ttacaaagat 360

aagtgggctc atacttagcc catgggctcg aaatttaccc tatggctcat gagaacccta 420

gggccttccc ttggatctct agccaatcta ctcggagtct cttacccaat gcccttacgg 480

ggtaggattg catcagtatg tttgtccctg tgtatgttgg ttttcaagag aaattgagtt 540

tttaactaag tggatgtgat atatttgtta ttgatga 577

<210> 5192
<211> 480
<212> DNA
<213> Glycine max

<400> 5192

agcttctgtc cctgaaaaac tggttcttat atgacaacag ggagtgaaga ttgctgaaaa 60

ccctagcctt gcaacaagtc ctagggaagt agacctggag atggataaga agatccgcag 120

tattgtgagt agcattttga aagacgcctc tgttcctgat gctggtgaag atgttccaac 180

atcctccacc ccgaatgttt ctgtgcctaa tgttgataaa gatgttccaa catcttccgc 240

tccaaatgct gaagccctcc cttcacccag tgaagaggaa tcaacagaag aagaagatca 300

agccacagag aagacccctg caccacgggc accagaacct actccaggtg acctcattga 360

cctagaagag gtagaatctg atgaggaacc cattgccaac aagttggcac ctggcattgc 420

agaaagacta caaagcagaa agggaaaaac ccccatcaag aggtctggac gaatcaaaac 480

<210> 5193
<211> 555
<212> DNA
<213> Glycine max

<400> 5193

ttcttgagaa accttccttg agaagcttct ttgagaaaac ttccttgaga agctagagct 60

tagctacaca cacccctctc ataactaagc tcacctcctt gagaagcttc tttaagaaga 120

ttcctaaaga agctagagct tagctacaca tacctctcta atagctaagc tcacctcctt 180

gagatgagaa gctagagctt agctacacac cccctataat agctaagctc acccccatga 240

caaaaaaaac atgaaaatac aaaaaaaagt ccttactaca aagactactc aaaatgcccc 300

gaaatacaag gctaaaaccc tatactatta gaatggccaa aatacaaggc ccaaacgaag 360

aaaaaaccta ttctaatatt tacaaagata agcgggtcat gcttagccca tgggctcgaa 420

atctacccta aggctcatga gaaccttagg gccttccctt ggatctctag cccaatctac 480

ttggagtctt ctacccaatg cccttgcaag ataggattgc atcacatgtc atgatagttt 540

tgaaagcctc atttg 555

<210> 5194
<211> 521
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5194

agcttatggt tgaaggaata gctcgcccaa gcgagctggt tgcttaggcc tgaaggcatt 60

tcatggccta ngcgagccat atgctagcct gggcaagctt aggtccagaa aaatccacaa 120

aaggaccctt ttgccccctt tcccttgtat ctttttgctt tcttgatcaa aactcggagt 180

gatccctggc ttcgcactgt aactagtgcc aaacaccgta attcaactag caatgatcaa 240

aacatcatat tgaatgatat ttcccggatg aaattagggt ctgacaactt gttatcatga 300

taacttttgc attgactttt tgttgatgaa tgaaattagt taaatgtgtt ttagaaaaaa 360

caagcttaaa tatgtttaag gtcactgata aatgactaaa ttttattttg ggtccctaat 420

aattattttg gtgttttaag tgtttgatat atttaaactt ttgttttgat tccctattgt 480

cagctaagtg atgatatgac accatcacaa tcgttaataa t 521

<210> 5195
<211> 615
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5195

tgagcttagc tacacatacc tgtctaatag ctaagctcac ctccttgaga tgagaagcta 60

gagcttagct gcacaccccc tataatagct acgctcaccc ccatgacaaa aaacatgaaa 120

atacaaaaaa aaaagtactt actacaaaga ctacttaaaa tgccccgaaa tacaaggcta 180

aaaccctata ctactagaat ggccaaaata caaggcccag acgaaggaaa tacctattct 240

aatatttaca aagataaacg ggctcatact tagcccatgg gctcgaaatc taccctaagg 300

ctcatgagaa ccctagggcc ttcccttgga tctctagcca atctacttgg agtcttctac 360

ccaatgccct tgcggggtag gattgcatca aaaccttctc attacccacc acccagtcat 420

ccacaaaggc catccctaaa atgaaccaca aagtgtacct accgcacttg caatgacaaa 480

caccaccttt agcataaacc aaaacaccaa ccaagatnat gaatttgcaa cgaagagcct 540

gtagaattca ccccaatttc agtgtcctat gctgacttgc tcccatatct acttgatatt 600

caatggtatc ataac 615

<210> 5196
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5196

agctttgcct ctggttgctc tgctagggtt ttcaagcatt agagagaagg agaagagatt 60

agagcctcaa tttcactgtc tctgtgtgag gggcgtttat ctccctacaa acattatttt 120

ttaaatccca atggtgggaa tatgtgaaaa tgagttttga acccgatgtc caaatttgaa 180

aatgatccaa cagttaatta gtctgctatt atagttttat tggaatagat ttggatgtat 240

gtgggaaaaa gagaggattt tgggagaggg gaagggagaa cgaatttgtg aggaagacat 300

agcgtcaaca acagcagcct gctccttcct tccaaaatgc tgctggccca agcagaccat 360

acattcctcc accaatccaa caacagcaac aacctcaaaa acagccaaca gttaaggccc 420

ctccacaacc ttcccctcggn aaaattgttt cgcc 454

<210> 5197
<211> 457
<212> DNA
<213> Glycine max

<400> 5197

agcttagtga cttaagtgtc tccaaactgt aattgtagga gaagttgcct aagccatgta 60

attttgaatg cagcaacttc catggcatgg catttagctt cgatgctggg tctagcaact 120

atattttgct tcttacttct gcatgagaac aaatttcctt ccaagagtca gaggtagacc 180

tcctatctga tggtgatcct acccaatcag catcagagta agaaacaatc ttcgcattgc 240

ctttgtcttc atgtaagagt ctacaacctg gtgcatactt gatatatcta aggattgata 300

tatctaagga tgcgcatgac agcatcccaa tggctatcac aaggggcatt gaggaattga 360

cttaccacac ttactgcaaa ggtgatgtct agtctagtga tagtgaggta attgagttta 420

ccaataagtc tgtgatatct tcccgggtca ttcagta 457

<210> 5198
<211> 632
<212> DNA
<213> Glycine max

<400> 5198

tggcaaaggt agttttaggc ctgtatacag ggggtatgcg agctatgtgg ctattgataa 60

ttaagctcaa aatttgttat taaccacatt taattttctt tcccacaaat ttggtgctaa 120

ggaaacacta caacatggac aagagatcgc tgctaagagg ctttcacaaa catctggaca 180

aggtttaaaa gaatttaaga atgaggttct gttatgtgcc aaacttcaac attgagatct 240

tgttaaagtt cttggatgtt gcattcaaga agatgagaaa ttgctcagat atgaatatat 300

ggcgaacaga agcttagact tctttctttt tggttagtct cataatcagc ttagaactgc 360

taatatttgg aacgatagaa gccgtgcttg gaaagcagac ggttaccaag cattgtctta 420

aaggggggaaa aaacacacgt gtctttcgta catatataat ttacttttat cattttgcca 480

cttttccaac taaaataaag aaataataaa agattgtatt ggaatttgaa atctttgtat 540

tatttctgta ctatgttaat aaataattga actaaaaatc ttacattaat tttattctaa 600

attattaaat tctatgtttt ttcattcttt tc 632

<210> 5199
<211> 466
<212> DNA
<213> Glycine max

<400> 5199

agcttcttat tcaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60

gtggatggcg cctcctctca cctcttcttc tttgtcttcc actgcatctc catggtggaa 120

aatcaccatt aaagaacctc attgaagctc aaagatccag cctccataga tgccccacaa 180

gcaagcttcc atcaggacgt gtaatcctct gaaggtgagg gcatgtagcc ctctgaaggc 240

aaggatgtgt agtcctctaa aggcgagggc gtgtagccct ttaaaggtga gggcgtgtag 300

ccctccgaag gtgagggcgt gtagccctct gaaggcaagg gcatgtagcc ctctaaaggt 360

gagggcgtgc aaccctctga aggcgagggc gtgcagccct ctgaaggcga gggcgtgcaa 420

ccctctgaag gcgtgggcgt gcagccctct gaaggcgagg acgtgt 466

<210> 5200
<211> 550
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5200

agcttgcctt gccccttgat atatttgagg gactcatggt cactatgaat gacaaattcc 60

ttgggataaa ggtagtgttg tcatgttttc aaagcccgta ctaaggcata caactgctta 120

tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180

tggccttctt gcatgaacac aaccccaatc ccaacattta aagcatcaca ctcaatttca 240

aaagattttt gaaagtttgg caacgcaagt atgggggcat tagttagctt ttgcttaaga 300

acattgaaag cttcttcttg tttctctccc catttgaaac caacattttt cttgagcact 360

tcattgagag gtgctgccag tgtgctaaaa tccttcataa atcgtctata aaaacttgtt 420

aagccatgaa aactccgcac ctcggtcacg gacttaggtg taggccattc ttgaatagcc 480

ctaaccttct cctcatcaac ttgcactcct tttgaactca caacanaacc aagaaacaca 540

acatggttag 550

<210> 5201
<211> 569
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5201

tgaccctggt agaaaaatga agataatgag cttacaaggc ttaagctcta tagcttgagc 60

tcaacctttg aataaaaata aagaaaagac tctagcaaaa cttaagcatt agagcttaag 120

ctcgagccta taattaaaag aagaaaaatc acttacaagg cttaactcga ggctcaaaga 180

aaaattaaga aaataggctt aagattgacc cttgaagaaa aatgaagaaa agactccgac 240

aaaacctaag ctttggagat taaactcgac cacacaagaa tgaagaaaat gaacttacaa 300

ggcttaagct ttacaactta agcttgaact tgaaagaaac atgaagaaaa gactttaaca 360

aggcttaagc tctatagcct aagtttgatc cttgaagaaa aatgaataaa ataggcttac 420

aaggcttaac ctctatagtt taagcttagg cctagaagaa aaatgaagaa aataggctta 480

caaggcttaa gctttgtggc ttanacttga cctttgaaga aaaatgaaga aaatactctg 540

aaagaggtta agctntaggg cttaatctc 569

<210> 5202
<211> 618
<212> DNA
<213> Glycine max

<400> 5202

agcttctttt gttaggtttt gcttacgttt atgagtgtat cgcgattttg tgcttctttt 60

tgggttgctc ccgttggctg acctttctgc tcctattcat tctctctttt cttttctttc 120

cggttactct tacattgtat ctgggttttt tatagcttct tttcttaggt tttgcttaca 180

ttcatgattg tttatcaatt tttgttgcca ggttgttctc ctatccaggt gtcattctgc 240

gattttgtgc ttctttttgg gttgcttttg ttgtccaggt ttgtatttcc ctcccagtgg 300

ctaacctttc tgttttgttt tttggttcct tttcattctc tctattcttc tggatctttc 360

ttttgggttc ctctttaacc ttttttggtt aggttttgct aacgtctgtt gctattttgt 420

tctcctatcc aggtctgaaa ctgtgatttt gttcgtcttt tccgtttgct tttgttgtcc 480

aggtttgaat tttcgtctcg gtgtctgacc tttctttttt gcattggttc tctcattctc 540

tgaaggttgt gggtttttaa aacgtctgct acatttgtgc tatgcctcca ttgccgagcg 600

attttatata taaaaaaa 618

<210> 5203
<211> 462
<212> DNA
<213> Glycine max

<400> 5203

tcaacatcag accacttcca gggtgctgga actacttcac atggacttga tggggcctat 60

gcaagttgaa agccttggag gaaagaggta tgcctatgtt gttgtggatg atttctccag 120

attcacctgg gtcaacttta tcagagaaaa atcagacacc tttgaagtat tcaaggagtt 180

gagtctaaga cttcaaagag aaaaagactg tgtgatcaag agaatcagga gtgaccatgg 240

cagagagttt gaaaacagca agtttactga atactgcaca tctgaaggca tcactcatga 300

gttctctgca gccattacac cacagcaaaa tggcatagtt gaaaggaaaa acaggacttt 360

gcaagaggct gctagggtca tgcttcatgc caaagaactt ccctataatc tctgggctga 420

agccatgaac acagcatgct atatccacaa cagagtcaca ct 462

<210> 5204
<211> 582
<212> DNA
<213> Glycine max

<400> 5204

agcttgttaa gtattaagtg gttatttaag cacgggtact tgacatgtgt gtagggttca 60

acaagtaaca tttatatatt agaacagtta aaataaaata tatttatgaa tgacatgaaa 120

aaataagcaa tatacaatga cgaattcatt taagatgtgt aaaaaattta aaagagagat 180

attaagcgca tgtttgcttt agactcatat ttatctctag ttatttgatg tgattttcca 240

cgtggattcg tgaatccaaa catagtctaa gagaataata ttacttaatt gtaagaggta 300

aaaatcattt gtataatagt aagatttatt taagacatct aaaaagtgga aagaaattta 360

ataagatgaa gatagcctaa agacatctca aaatatgtgt ttattttgtc atttcttatt 420

tagtactagt gtgtaataat tttttttaa aaaaaaacaa tagaacttat taaacactca 480

taaaaaatat gcttacataa gtctttctct aacagtagag tcttaaaaaa tttgtgggtt 540

cttcatagac tattaaacat catataaatg tgagatgaag tt 582

<210> 5205
<211> 405
<212> DNA
<213> Glycine max

<400> 5205

tctgttttca attttgagcg tctagatata ttacgggtat caatcggaca tccgagcaaa 60

aagttattgt catttgaatt ttgtgtattc atttttttagc atcaagaatt attaaatgac 120

tcaatcggac atccgagtaa aaagatattg tcgattgaat ttgctgacag cttgtgtatt 180

caatttcgag agtctcgaat tattaaatga ctcaatcgga catccgagta aaaagttatt 240

gacatttgaa ttctcttaga gcttctgatt tcaatttcga gcatctagaa ttattagagg 300

actcagtcgg acatcccagt aaatagatat ggtcatttga atttgcttaa agatactggt 360

ctaaatttcg tgcgtctcga tatactatag gactcaatcg gactt 405

<210> 5206
<211> 627
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5206

agctttatat ggacgaaagt gcaaaagtcc tatttgttgg tatgatgatg gagaagcagt 60

acttcttgga cctgaaatgc tacaacaaat taacgaacaa gtgaagttga ttcgagagaa 120

gataaaagca tctcaggata ggcagaagag ctattatgat agaaggagga agccactaga 180

ttttcaggaa ggagaacatg tgtttatgaa ggtttctccc gtaaccggag tcggaagagc 240

tcttaaggct aggaagttga cacccaagta tctaggtccg tatcagattt tgaagaagat 300

tgggcctgta gctaggaatt gcccacagct ccagcagacg acaataactt ttaactcgaa 360

tgttcgatta agtcacgtaa tatatcaaga cactagaaac tgaaaacgca agctcgtagc 420

aaattcaaac gataataact tttaactcgg aggttggatt gagtcccgga atatatcgag 480

acgctcgtaa ttgaaaacgg aagctcgtag canatgcaaa cgacaatana cttgaactcg 540

gatgttcgat tgaatcccgg tatatatcga gacgctcgaa attgagtata gaagctcaga 600

gcaaatgcaa cgacaataaa ttttact 627

<210> 5207
<211> 640
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5207

tggttcccaa cgctctgttc aagctctccc aaaatctaga ggtaaatcta ggatctctat 60

cagatactat gctagatggc acaccatgta acctgacaac ctcacttata tacaaggtgg 120

tcaacttttc caaggaaaat cttatattaa tgggaatgaa gtgagcagac ttagtcaatc 180

tatcaacaat aatccagata gaatctaaac ctctaggggt tctaggtagt cctaccacaa 240

aatccatgga aatattgtcc cacttccact ggggtatctc taagggttgt aacatccctg 300

aaggtctctg atgttctatc ttagcctttt gacagactag gcatgcatac acaaactcac 360

taacctctct cttcatgttg ggccaccaaa acatcgtctt taaatcatga tacatcttgg 420

tagcaccagc atggatgctc anattattcc tatgtccttc ctctaagatc atcttcctaa 480

gttcaggcac attgggaaca caaatcctat cttggagtct tcaaactcca tctgatccaa 540

tattgaaact actgtccttt cctgactcta tagcctctaa ctgagtcctt agaaaaggat 600

caatcttctg acctttcctg atatcaccta gtaactcact 640

<210> 5208
<211> 527
<212> DNA
<213> Glycine max

<400> 5208

agcttgaaga gatcttcaat ggctacgaac aacaacgcat ttcattttgc ttcttctttc 60

cccaattaca tatcacataa agtagaagat tcaagctttc ttttatggcg tcaactagtt 120

aagcctatta tcaaatcaaa caaacttcaa tgattcattg ctaatccgca aattccactt 180

tgatttctct ttaaagaaga tcatgaagtt ggacgtgaaa atccagttta tgaggcatgg 240

gagtagcaaa attaggtgtt attaatctgg cttcaatcca ttctttctac actgattttt 300

tctcatgtaa tcggttataa tcactcctat gaagtctagg agcacatcca tgattacttc 360

cacaagcaga gcatcgccac aacgcgtcag ttgcacattc aacttcgagc aatgaaactt 420

ggaagcaagt tgatgcaata gtttctatct caaatcaagg tactcgctga tgctcttgct 480

tcattaggaa gccctataat gattcaagag ctcgttgatt caattct 527

<210> 5209
<211> 583
<212> DNA
<213> Glycine max

<400> 5209

agcttctttt agaaaacttc cttgagaatc tagagcttag ctacacacac ccatctaaaa 60

actaagctca cctccttgag aagcttcctt gagaagctag agcttagcta cacacacccc 120

tctaataact aagctcacct ccttgagaag agaagctaga gcttagctac acacccctat 180

aatagctaag ctcacctcca tgacaaaata gatgaaaata caaaaaaaaa gtccctacta 240

caaatactac tcaaaatgct atgcacacac atgacctcta tttatagcct aagtgtcaca 300

caaaattgaa gggaaatttg aatttcaatt caaatttcac ttgaatttga aattgaattt 360

gtggagccaa actttggagc ctaaatttca ctaattatga ttagtgaatt ttagttatgg 420

ttcatcccac taatccaaga tcaattccaa gattctcaac taagtgtgct taggtgtcat 480

gaggcatgta aagcatgaag gacatgcaca aagtgtgact atatgatgtg gccatggggt 540

gtagtaagca aatgctcacc ctccccttct aaaattaatt gga 583

<210> 5210
<211> 365
<212> DNA
<213> Glycine max

<400> 5210

tttgttctca atatcgagcg tctcggtgta ttacgagact taatcggata tcggagttaa 60

aagttattgt ggtttgcatt tgctacgagc ttctattttt aattacgagc ctctcgatgt 120

attataggac tcaatcgaac atctgagtaa aaatttattg tcttttgaat ttccaacgag 180

cttttatttt caattacgag cgtctccata tattatggga tacgatcgga catccgagta 240

aaaatgtatt ggcttttgaa tttactacga gcttccgttt tcgattgcta gcatctcgag 300

atactacagg acaccattgg acattcgagt aaaaatttat tgtgcgttga atttgctcag 360

aattt 365

<210> 5211
<211> 442
<212> DNA
<213> Glycine max

<400> 5211

agcttcaacc aaggggagat ggaccatttt ctagtgcttg aaagaatcaa tgacaatgct 60

tacaaagttg agctgcccgg tgagtataat gttagttcca ccttcaatgt ctctgattta 120

tctctttttg atgcagatgg agaatccgat ttgaggacaa atccttctca agagggagag 180

aatgatgagg acatgaccaa gaacaagggc aaggatccac ttgaaggact tggaggacct 240

attgatgagg acatgaccaa gagcaagggc aaggatccac ttgaaggact tggaggacct 300

atgacaaggg ctagagcaag gaaagccaag gacgctcttt aacaagtgct gtccatacta 360

tttgaataca atgccaagtt tcaaggagaa aagtccaagg ttgtgagttg tatcatggcc 420

ccaatggagg acttaatgac ac 442

<210> 5212
<211> 478
<212> DNA
<213> Glycine max

<400> 5212

agcttcccgc caatggtatt tgaagtttaa tgataccatt gttttctttg aatttaagga 60

aaatactgtt gatcggtgta tatatctgaa tgtcagtggg agtaaggtta ttttttaat 120

cctatatgtt gatgatatat tgcttgcaat taatgatctt tgtaatatcc catttttgt 180

aaactaattt aaaaagaatt tttatttata aataaataga gttttagaaa aatgatgagg 240

tttttgtaaa taaataaata atgagaaata atgatttgaa ggaaaaaaaa aagaaaagat 300

atttgattta ttcatttgat agggaataaa atagagttcc tttttataaa atattaaaaa 360

taaataaata gagtaataat aagttgtgta taccccaggt ataaatagtt ctgttaagtc 420

aaatttcaga ctgacgatgc ctcatctttt cctcaatttc ggttttcttt attctcct 478

<210> 5213
<211> 581
<212> DNA
<213> Glycine max

<400> 5213

agcttatgct gcaaatattt acaatagacc tcctcaacct cagcagcaaa atcaaccaca 60

gcaaagcaat tatgacctct ccagcaacag atacaaccct ggatggagga atcaccctaa 120

cctcagatgg tccagccctc agcaacaaca acagcagcct gctccttcct tccaaaatgc 180

tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240

acagccaata gttgagggcc ctccacaacc ttccctcgaa gaacttctga ggcaaatgat 300

tatgcagaac atgcagtttc aacaagagac cagagcctcc attcagagct taaccaatca 360

gatgggacaa ttggctaccc aattgaatca acaacagtcc cagaattcta acaagctacc 420

ttctcaagct gtcccaaatc ccaaaaatgt cagtgccttt tcattgaggt cgggaaagca 480

atgtcaagga cctcaccccg tacacctttc ttatctgaaa tgaacctgcc aaacttcact 540

ctactccaga aaaaggtgat gaccaaaatt tacctaacaa t 581

<210> 5214
<211> 533

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5214

agcttcctct tattagtgca tagctccttt aagaattcgg catatcttgg aatttgcttt 60

attgcatcca gcagaggtat gtttacctct acttttctga atgtttccaa gatcttttc 120

tctgcctctt ccatttttt gttggaaact gctcttggag ggaatggaag aggagggatg 180

tgttgcttct gcaaatcaga attaccagtg gaagattcac ctgcacataa attgttaggt 240

aaatttttgt cattaccttt ttctgggtta gagtgaagtt gggcaggttc atttgcagat 300

gaggaaggtg ctacgggttg aggtccttga cactgctttc ccgacctcaa tgaaatggca 360

ctgacatttt tgggattttg gacagcttga gaaggcagct tgtcagaatt ctgggactat 420

ttttgattca attgtgtagc caattgtccc atctgattgg ttaaagcttt aatggaggct 480

ctggtctctn tgtgaaactg catgttctgc atagtcattt tgcctcaaaa ttc 533

<210> 5215
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5215

ccttatgacc ctgcatgaac cttgaaatta tggcttcaga cgatatccca tatatatatt 60

tgcacgtgtg cctgttgacg attgcttcac ggacttcacg atctattgcc tgtaaaaaga 120

aatactttac ctttaagacc ttcaactcct gctcctcgat caattagcat tgcgccttcg 180

cacgctctat tccatctacc accatctata tcccattctc aatgagatcc caagatcctt 240

ggagtggaga aaatacttca tcaacattgc ccagtggcta taaagaccat taaaccttcg 300

gattgcaagc tgcacaatac tgctactccc acctgctgct attgaaatga actcgttcta 360

ctcgaaagat agaaaaactg cagtttcgtt cttgactcgc actcattgtt gttgtcacac 420

actcactgct ntcctcacgt gcactcaata tcaagcgcct actgaggatc tctga 475

<210> 5216
<211> 609
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5216

agcttcatgc ttaagtatgt atggcaaaac ttcattaatg ttgttcaaga catacaagtg 60

agcttgtaac aaatgttcta cacttggagt aatgacatgc agtcctcttg aacccttacc 120

acccactctg tcatcatgcc gagactcagg aaggccaaca ggtttagcct tctctaagta 180

ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcttttgg 240

acgatataga ttctttgtat acccttttaa gatcttcatg tatcgctcaa ccgggtacat 300

ccaccgtaga taaacaggac cacaacattt gatttctctg accagatgca caatcaagtg 360

aatcatgatg tcaaagaaag caaggggaaa atacatctca aactggcaca gtataattgt 420

ggcctcattt tccaactcat caaacttgac aggatcaatg actntgctac atatagcatg 480

gaagaaaaag cacaggtgag ttatcgctaa cctgactttg tttggcaaga tgtctcgtat 540

agctacgact aacaattgtt gcatgagcac gtgacaatca tgagacttta accctacaag 600

cttaagctc 609

<210> 5217
<211> 605
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5217

agcttatgca tgcttaagcg ctataactag aacaaatgaa gttgtttcta aatttgcgct 60

taagcaaaaa attagtggtg caagcgagaa aacacgtttc aaacttgatt agaatggctt 120

ccaaatggaa ttcaattaga attgtcactg ttatgtgagg atcatttcca ttgtttaaga 180

tatctatgat ttgaagaaga gaattatttt ttatattgta agactttaaa gggaaaattg 240

atatttaata tacctttgtc ttcaagtttc tatttaccta taaaggggag aaatgactat 300

tttattgttg attaagacac ttatagtatt tgttgagaaa tatttttttgt tgttaagacg 360

aaatcatttt gaaaagataa tgatgatgta ttgattgatc acttgtagtt tagtattttt 420

ctattcttct tagctcaatt aacatctctt tgagccttat tttctcactt taacttagtt 480

ttggtcttag acaaatgaat gagcttaatt gataattatg gcttattttc atatttttgt 540

gcttacttga cctatttggg tttgcangga ctattngata ctacaaagat gaaatggatc 600

gtgtg 605

<210> 5218
<211> 722
<212> DNA
<213> Glycine max

<400> 5218

tctggagaag agaagagcca tttcatcaag ttctatttta ttaattgttt ttcaatgttg 60

tagtattaac taagcatgat ttgatttcca ttgtttgtgg gtgggtttat gacggtggag 120

gaatggaagg agaagtggac aacattgata ttacagacag aaaacatagg gattcctgaa 180

tcttctccac cttacatcca tcaatgtgat catgctgtct ttgtattacc tcccaaaaaa 240

taaaaagcaa ataaaatcta cttaaatttg tgaagtagaa caactaacta taagataaac 300

aacaacgtgc ttgctaacgt attaaaatat aatcaattta attagaatgt attcttttct 360

tttatataat aataataata ttaatgcatt tgttaatttt tttagtattt aaaatttatt 420

aaaaatataa ataaataaga gataataatc ataccatttg gtgattaaat ttcaatcaat 480

aaaaaaatgt attttaaata gggggttttt tatattctct atcatttata ataactgctt 540

tttatacctc aattaccttt tattagttaa taatgtaaat gtttttacac taccaataca 600

taaagtaaaa aatttcttga tatattttag aattaattac attgttatca tcttctaatt 660

aatttttaaa tttattggat catcttatta tttaaaaatt aattaggtct atgtttttaa 720

aa 722

<210> 5219
<211> 595
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5219

tcttagtttc agatgatgca gatgggtttg tagctacctc atgcactcct ctaatgacta 60

tggcatcatt tctggcgcta aactgctgag agttggaggc catcttctca attaaattta 120

tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180

tctccatatt actgagtcct tcataaaaat attggagaag aagctgttct gaaatctgat 240

ggtgagggca actggcacat agtttcttaa atcgctccca gtactcatac aggctctctc 300

cactgagctg tctaatacct gagatatctt tcctgatggc tgtggtcctg gaagcacgga 360

aaatttttc taagaatact ctcttaaggt catcccagct cgtgatggac cttggagcaa 420

ggtaatacaa ccagtccttt gccactccct ctaatgaatg aggaaaagcc ttcagaaata 480

tgtgatcctc ttggacatct ggnggtttca tggtggagca gacaatatga aactcctttc 540

aatgattgtg cgggtcttca cctgcaaggc catgaaactt tggaagcaca tgaat 595

<210> 5220
<211> 508
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5220

agcttctata gaaggttcat tcctaatttc tctacaattg cttcacctct caatgagctg 60

gtgaagaaga atgtggcatt tacctggggt gaaaaacaag agcaagcctt tgctttgctc 120

aaagaaaagc ttactaaggc acctgttcta gctcttcctg agttttctaa aacttttgaa 180

ctagaatgtg atgcctctgg agttggagtt ggagttgtat tgtaacaagg tggacaccct 240

attacttatt ttagtgaaaa acttcatggt gccaccctca accaccccac atatgataaa 300

atgctttatg ccttaataag agccatccaa acttgggaac attaccttgt ttccaaggaa 360

tttgttattc atagtgatca tcaatcactt aagtacatta gagggcaaag caagttaaac 420

aaaaggcatg caaaatgggt aaagtaccta gagcaattcc atatgttatc anatacaaaa 480

ggggaaaaca aatgtggagc taatgccc 508

<210> 5221
<211> 540
<212> DNA
<213> Glycine max

<400> 5221

agcttagact gagttcagcc taccatcctc agactgatgg ccaaactgaa cggaccattc 60

aatcattgga ggacctttta agagcgtgtg tcttaaagca gaagggaagc tgggagagtt 120

ttcttccatt gatagagttc acttataata acagttttca ctctaccatt ggcatggctc 180

cctatgaagc tttgtatggt agaaggtgta ggacacccct atgttggtta gagcccggag 240

aaggccttac cttagatcgg aagtggtaaa ccaaccacag agaagatcaa gttgatccaa 300

gaaaggatga ggactgctca gagtaggcag aaaagttatc atgataagag gaggaagggt 360

ttggaattca aggttggtga tcatgtattc ttgagagtca ctctgtggac tggggttggt 420

caagcattga aatcccgaaa actcacacct cgctttattg gtcctttccc aattcttaag 480

agagttggcc ctgtggcata ccaaaaggcc ttacccccgt ctctttctaa tcttcacaac 540

<210> 5222
<211> 485
<212> DNA
<213> Glycine max

<400> 5222

tgaaggcaaa ctggatgcgt tggtcaactt ggtaacccag ctggccttga atcagaaatc 60

tgtacctgtc gcaagggttt gtggtttgtg ctcctctgct gaccaccata cagacctttg 120

cccttccatg cagcaacctg gagcaattga gcaacctgaa gcttatgctg caaatattta 180

taatagacct cctcaacctc agcagaaaaa tcaaccacag cagagcaatt atgacctttc 240

cagcaacaga tacaaccctg gatggaggaa tcaccctaac ctcagatggt ccagccctca 300

gcaacaacaa cagcagcctg ctccttcctt ccaaaatgct gctggcccaa gcagaccata 360

cattcctcca ccaatccaac aacagcaaca accccagaaa caaccaacag ttgaggcccc 420

tccacaacct tccctcgaag aacttgtgag gcaaatgact atgcagaaca tgcagtttca 480

gcaag 485

<210> 5223
<211> 561
<212> DNA
<213> Glycine max

<400> 5223

tcttagtttc agatgatgca gatgggtttg tagctacctc atgcactcct ctaatgacta 60

tggcatcatt tctggcgcta aactgctgag agttggaggc catcttctca attaaattta 120

tggcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180

tctccatatt actgagtcct tcataaaaat attggagaag aagctgttct gaaatctgat 240

ggtgagggca actggcacat agtttcttaa atcgctccca gtactcatac aggctctctc 300

cactgagctg tctaatacct gagatatctt tcctgatggc tgtggtcctg gaagcaggga 360

aaatttttc taagaatact ctcttaaggt catcccagct cgtgatggac cttggagcaa 420

ggtaatacaa ccagtccttt gccactccct ctaatgaatg aggaaaagcc ttcagaaata 480

tgtgatcctc tttgacatct gggggtttca tggtggagca gacaatatga aattccttca 540

aatgtttgtg cgggtcttca c 561

<210> 5224
<211> 434
<212> DNA
<213> Glycine max

<400> 5224

agctttactt cactgcttca agtagtgcac gagctgcttc cagagggaaa cacgttgcct 60

aaaagctact agcaggacaa gaagatactg tgtccgatgg gtatggagta tcagaagatt 120

catgcttgcc caaatgatga ggactgcaat tctaatgagg catgaattca aagaaatgtc 180

caaatgccct tggtgcgagg catcatggta caaggtgaag gatgatgagg actacagttc 240

taataaaaac tcaaagaagg gccctctaga gaaggtgttg tggtatcttc ccatcattcc 300

aaggtttaag cgtcttttta ctaatggaga cgatgcaaaa gaccttattt ggcatgcaaa 360

tgggagaaac tctgatggaa tggtccgtca ttcgactgat tgctcgcagt ggaagaagat 420

tgatggtttg tatt 434

<210> 5225
<211> 404
<212> DNA
<213> Glycine max

<400> 5225

agcttgaagg caaactggat gcattggtta acttggtaac ccagctggcc ttgaaccaaa 60

aatctgtacc tgttgcaagg gtttgtggtt tgtgctcctc tgctgaccac catacagacc 120

tttgcccttc catgtagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180

tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240

tctccagcaa cagatacaac cctggatgga ggaatcaccc taacctcaga tggtccagcc 300

ctcagcaaca acaacagcag cctgctcctt ccttccaaaa tgctgctggc ccaagcagac 360

catacattcc tccaccaatc caacaacagc aacaacccca aaaa 404

<210> 5226
<211> 612
<212> DNA
<213> Glycine max

<400> 5226

tagtgtaagc cttataaaat tcttatttaa tttaattatt tatttttaaa tttatatact 60

ttttaaaaag gggaatggtc atttaaaaaa atgttctaaa aatttattta aaaacaaaat 120

ttgtaataat atattctaat taaataaaat gacaactcta aaacaagata ataaatctaa 180

atttaaagtt aagacagaag gtgtgtaatc atttaaataa attaataaat atataatttc 240

aaagtattgt gataaaatac taaaataaca gcaataatgg tatttatgta gataatgtaa 300

tttattaaat ataaaataat ttttgaataa cttcaaattt aaccataata attagttttt 360

tttaaataaa aaaaaaacct aatttattta attactctaa aaaacctaat ttatcatggt 420

agtataaaca ctatagaaac atttaacacg tcccataatc tttattatga aagtattttg 480

gaaagcataa aaacagaaac agaactataa tataaactat ctatagcata atcttattac 540

aaatttgtca aaattaacaa aattataatc tttgatgata taccacagat catagatgaa 600

ttaaataaaa ct 612

<210> 5227
<211> 552
<212> DNA
<213> Glycine max

<400> 5227

agcttttctt tgtggattca ttttgctttc attccattaa aacatgtcaa tgattcttca 60

aagcgttatc agttctacca ttaaagagtt tcgtaatggt tgtccacctt gccccataaa 120

gctcgcaagc cacaagttgc tctcatcttc ctttttttgta aagggaattt tgttaagttg 180

agaatcaaga tgattgtgcc acctaaattt gtagctttta cctagacaaa agtaatgaaa 240

acccattatt caaaatacat tacaaaaata aaattagaac ataaggtact acaatataat 300

atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat 360

attaatcttc tataccaaag caatggtttc gtagtactat tatctcattt gtaaactctc 420

tctagtgaaa taagaacaac acgaacatga ttctaactaa ataatcatac ataagttgat 480

tatgattaaa tataaataaa atatccaagc tccgatgtca aatctatcaa agatatacaa 540

accccaacca at 552

<210> 5228
<211> 460
<212> DNA
<213> Glycine max

<400> 5228

ggatcggaca tccgtgtgaa aagttatgac ccttttttatt tttccagagc ttccggtggt 60

caatttcgag cctctcgaca tattatgcgc ccgaatcgga catctgtgtg aaaagttatg 120

atcatttgaa tttctccaga ggttccgatg tttaatttcg agcgtctcga tatattataa 180

ccctgaatcg gacctccctg tgaaaagtta tgaccatttg aatttgacga gagcttccgt 240

tggtcaattt cgagtgttcc tgtatgtgat gcgcccaaat tggacattcg agttaaatgt 300

tctgaccatt tgaatttctc aagagcttcc gttgttcaat tctgagcgtc tcgatatgtg 360

atttgcctga atcggacatc cgggtgaaaa ggtatgtcca tttgaatttc tcaagagctt 420

ccgttggtca atttcgagcc tctttacata attatgcgcc 460

<210> 5229
<211> 522
<212> DNA
<213> Glycine max

<400> 5229

tctagaagct gggcttatct accccatttc ccatattgct tatgtaagcc cagttcaggt 60

ggtactaaag aaaggggcat gacagtcatt tgaaatgaaa agaatgacct aatcccaacg 120

aggaatgcca ctagctggag aatgtgcatc gattaccgca agctcaatga agccacaagg 180

aaatatcatt ttcctttgcc tttcatggac cagatgttgg agaggcttgt gggacatgct 240

tattactgct tcttggatgg atactttggg tacaatcaga ttgttgtgga ccccaaggat 300

aaggaaaaga tgaccttcac atgccctttt ggtgtctttg cctatagacg gatgtcattt 360

gggctatgta atgcacctgc cacattttag aggtgcatat tggccatttt tgcagatatg 420

gtggagaaaa gtattgaggt attcatggac aacttctcgg tatttacttg ttgatagctt 480

tggcaagcat accaactgtc gttgtacgtt tcacatttat aa 522

<210> 5230
<211> 584
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5230

tctcaaagct atgttatagg cgctctgata agagcatcac ccttgttcat aacagcctca 60

aattagtagc tttgtggtgc atccttgctg cttacgtaac accattcttt atcattcctc 120

acacggttca ccctcttctg ggttggatcc tgtatttgct tgctactttt gcactttgct 180

caattgcaat caatatcttt atgctaccaa tgttaccagt tttggtacca tggcttggaa 240

ttgttggggt ccttatggtc atggcatttc cttggtatcc tgatggggta gtgagagcac 300

tgtttgtctt tgcttatgcc ttctgctctg caccattttt gtgggcctct atggtgagga 360

tagttcaagg tcttcagtta tctctataaa gggaagcttt tctgccagca agattgngag 420

agtcttcgcc aaattcatgg tttaacaagt tatattgagc tgtctagttg ggcacaccaa 480

tacaaggctg ggacaaagag ggaccttctt ggcaagctca gccaacatag aagggagcat 540

gatacattaa ataccaaaca tgcccagtag gcttcacaat gaat 584

<210> 5231
<211> 361
<212> DNA
<213> Glycine max

<400> 5231

agcttccaag agttgaagag gcgattgaca acagcttcag tgttaatttt gcccgaccct 60

aagataccat ttgaagtgta ttgcgatgca agcgggcaag gcttggggtg tgtgttaatg 120

caagagggaa gagtagtggc ttatgcttca cgccaattgc gtcctcatga agttaactat 180

ccgacccatg atttggaact agcagttgtg gtctttgcct taaagatttg gaggcattat 240

ttatacggta ctcgttttga agttttcagt gatcataaga gtctcaaata cttgtttgat 300

cagaaggaac tcaatatgag gcaacaaaga tggatggagt tcctcaagga ttatgatttt 360

g 361

<210> 5232
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5232

agcttaagtg tgattccttt ctttttctta tcattctcct catgttgatt cagtctcatt 60

agttccattt cgtgttccta taactntcca aataaagttg caagagacat gttagaaaga 120

tcccttgatt ctgtaatagt tggtaccttt ggctgtcatt ccctacttaa acatcttaga 180

actttattaa taagatcctc attgngaaat atctttccta atgatgcaag atgatttact 240

atgtgtgtga atctcttttg catatcatgt atagtttcat tttggatcaa tctacacaat 300

tcatattcat gggttaaggt atttattcta gacctctnta catctattgt tccttcatgg 360

ggtactngta anggatccca catatctttt gcactctgca attngtactc taaagattca 420

tccattccta aggagatgta attatatttg gctctaaata ta 462

<210> 5233
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5233

tgtagaactg tccaatatcg cgaagtgaac ctcggatccc tgtctgatac aatactggaa 60

gggaattcat gcaaccttac cacttctttg atatacaact ccactagctn nttccattta 120

tacttcatat tcaccggaat aanatgagca gaatcggtaa gtcgatctac ataatcagcc 180

acattcttct tcatgccatg ccaccaaaaa cttctcttca aatcttggta cattctagtc 240

attccaggat ggaaactaag acgacttnta tgcgcttctt ccaagatctt aactttcaaa 300

tcatctaaag atgacacgca tatccttccc ttgaatctaa ttaacccggg tgtgtccttc 360

tcanactctn acatccttat ccccattaca 390

<210> 5234
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5234

tggagctgac ccatcaactg ccctagctct tttatactgg tgattcctan gctcttgacc 60

ttgacttgat agaacctctt tntaagcgaa gtcatttgac ttgatcccat gttntactaa 120

agtgaacaaa attggtgcga atcanaactc tgacatctat catgggtgga atggatgaat 180

gcatgaagtg gtagtgctta tctctacccg agtttaaaag attggctcag aatttgtaaa 240

acataagcac ttatacaatg aaggaaagct ggagttgctg cacatgatgt ccaacgttat 300

gt 302

<210> 5235
<211> 247
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5235

cctggagcaa atgagcagcc cgaagcttat gttgcaaaca tttacaatag accctcctca 60

cctcagcaag caaatcaacc acaacagaac aattatgacc tcttcagcaa cagatacaac 120

cctggatgga ggaatcaccc taatctcaga tggtctagcc ctcagcaaca acaacagcag 180

cctgctcctt cctcanaaat gttgtggccc aagcatacat acatttctca caatccacaa 240

cagcaca 247

<210> 5236
<211> 308
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5236

gcttctcgat atattatgca cctgaatcag acttccgttt gataagttat gaccatttga 60

atntctcgag agctntcgtg gttcaatttc aagcttctcg atatattatg cacctgaatc 120

ggacttccgt gtgacaagtt atgaccatnt taatttctcg agaacattcg ttgttcaatt 180

tcgagcgtct cgatatatta tgcatctgaa tcggacttcc gtgtgataag ttatgaccat 240

ttgaatttct cgagagcttn ncgttgttca attcaagctt ctcgatatat tatgcacctg 300

aatcagac 308

<210> 5237
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5237

agctntngag caattcanat ggacattact tntctcatgg atgttatatn tatgcgcata 60

atatatcgag acgctcaaaa ttgaacaacg gaagctctcg agaaattcaa atggtcataa 120

cctttcactc ggaggttcga ttcatgcgca taatatatcg agacactcga aattgaacaa 180

cggaagctct cgagaaattc aaatggtcat tacttntcac tcggaggtcc gactcangcg 240

cataatatat cgatacgctc ganattgaac aattgaagct ctttagcaat tcaaatggtc 300

ataacttntt ccctcggagg tctaattcac gcgcataata tatctacacg cacaaaattg 360

aac 363

<210> 5238
<211> 310
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5238

cttccttcat caatgatcat catgcanact atgccattga tcaaacatct agtgtggaaa 60

atggtatctc tttgactttc ctccatagac ttcaattgat ggccaagtaa ccgcctaatc 120

atcaacaatt ctcccttcga tgttttctcc acttgcttct cagcatcctc actctcttct 180

tccttntcaa cttcggaatc actaatgcac tcttcgtctc taagaatcat ggcattctat 240

gtaaggcact catatgcata atgatccaag ccatggcacc gaaaacactt cacatcttga 300

ctttttttatt 310

<210> 5239
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5239

tatgaagatg tagcatccta cagaagattg natgggaaac ttctgtactt gaacaacact 60

aggcctgaca tcacatntgc cactcaacaa cttagtcaat tcttaagtaa acctagtatg 120

acacactaca atgctgcctg tagggttgta agtacctcan aggcagtcct ggccgaggcc 180

tgttcttccc aagaaagcca gaaatccagc tactangaat ttctgatgtt gattggggtg 240

gttgcttaga ttcaaggagg tccatttcag gatattgctt cttcttgnga gcatctttga 300

tctcttggag agctaagaag cagcaaacag tctca 335

<210> 5240
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5240

tgcagcttga gcanattana cgacaaaact ttatctncgg agttcgattg tgtcccgtag 60

natatcgaga cgctcgaaat tggaaacaga agcactgagc aaattcaaac gacaataact 120

ttntactcng atgaccgatt gagtcccgta atatatcgag acgctcgtaa ttgaaacaga 180

agctctgagc caattcaaac gacaatatac tttaactcgg gtgtccgatg gtgtctcgta 240

gtatatcgac acgctcgtaa ttgaaaccgg aagctctaag aaaattcana cgacaataac 300

ctttgactcg gatgtccgat tgagtcctat aatatatcga gacgctc 347

<210> 5241
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5241

agctnntgag caaattaaat gacaataact ntatacacgg atgttctggt gagncccgta 60

atatatcgag aacgctccaa tatgaaacgg aaactcttat aaatatcata cgacaataac 120

tttntacttg gatgcccgac agagtgtcgt aatttatcga gggatgctcc aaattgaata 180

cggaagctcg taccaaactc aaacgttaat aacgttttac taggatgtct gattgagtcc 240

cgtaatatat cgagacgctc acaatttaga tccgaagctc tgagaaaatt gaatagacaa 300

taactttata catggatgtc ccggtgagtc ctgtattata tcgag 345

<210> 5242
<211> 271
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5242

cggtagaatt caatgaatgt ccttttaagt ggggcctcta tcttgntctt atttttttctg 60

ctgaaaacaa ctagctctgt attgctatgg aaactgagaa caccttttat agtcgaacgt 120

ggagttacat agntgtgtgt gaaatgcact cgatcaagta tttccaaacg ggctggtcta 180

gtcaccctgg tattctttgg cttctctgcc tcaacttttg ggtttacact ggtctgatta 240

tctgattgtt cattatgact gttgctctct t 271

<210> 5243
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5243

ctgcagctat gctganatat tacaatagac cttctcaacc tcattatcat atcaaccaca 60

gcagaacaat tatgaccctc tcagcaacag atacaacccc ggatggagga atcaccctaa 120

cctcagatgg tccaaccctc agcaacaaca acaacagctt actcctttct ttcaaaatgt 180

tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240

acagccaaca agtgaggccc ctccacaacc ttccctcgaa gaactngtga ggcaaatgac 300

tatgcagaac atgcagtttc agcaagagac cagagccttc attctgagct ta 352

<210> 5244
<211> 370
<212> DNA
<213> Glycine max

<400> 5244

agcttcacta ccaacaaatg cttgtgctca tgctcaattg gaagacaaca aacttaccat 60

aaaccaatca aaagggagac attatcagag gtttgtaagc tatgcagtaa ctgcataaag 120

catcaccaag cttcaaggac caatcttttc ttaatcaaaa aataatcttt tcaagaatgg 180

cctagatctc tctataagag acttccactt gacctcttgt ctgaagatgg tcatgtgtag 240

cgtgagcgac tccatacatc ttcaatataa attcaatctg cctctcaatg aaatgagaac 300

caccattact aatcacagat cgtgggaccc ccaacattgg tgaaattatc tacttgaaca 360

gctggatcac 370

<210> 5245
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5245

ttaacatcag accacttcca gggtactgga actacttcac atggacttga tggggcctat 60

gcagttgaaa agcctggagg aaagaggtat gcctatgttg ttgtggatga tttctccaga 120

tttacctggg tcaactttat cagagagaaa tcagacacct ttgaagtatt caaagagttg 180

agtctaagac ttcaaagaga aaaagactgt gtcatcaaga gaattaggag tgaccatggc 240

agagagtttg aaaacagcaa gtttactgaa ttctgcacgt ctgaaggcat cactcatgag 300

ttctctgcag ccattacacc acaacaaaat ggcatagttg aaaggaaaaa caggactttg 360

caagaagctg ctanggtcat gcttcatgcc aaagaacttc cctataatct cttggctgaa 420

gccatgaaca cagcatgc 438

<210> 5246
<211> 502
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5246

ttgagcaaat tcaaacgaca ataacttttt actcggatgt ctgattgagt cccgtaatat 60

atggagacgc tcgaaattga atgttgaagc tttgagccaa ttcaaacaac aataactttt 120

tactcggatg tctgattgag tcccgtaata tatcgagacg ctcgaagttg aatgttgaag 180

ctttgagcaa atttaaacga caataacttt ttactcggat gtctgattga gtcccgtaat 240

atatcgagac gctcgaaagt gaatgttgaa gatctgagcc aattcaaacg acaataacgt 300

tntactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcgaaat tgaatgttga 360

agctctgagc caattcaaac gacaataact ttttactcgg atgtctgact gagtcctgta 420

atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaatttaaa cgacaataac 480

ctttttactc ggatgtctga tt 502

<210> 5247
<211> 534
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5247

agcttcaaca ttcaacttcg agcgtctcgt tatattatac gactcaatta gacatccgag 60

tataaagtta ttgtcgtttg aattttctca gagcttcaac attcaatttc gagcgtctca 120

atatatgacg ggactcaatc agacatccga gtaaaaagat attgtcgtct taattggctc 180

agagcttcta cattcaattt cgagcgtttc gatatatgac gggactcaat caggcatccg 240

tgtaaaaagt tattgtcgtt tgaattggct cagagcttca acattcaatt tcaagcgtct 300

cgatatatga cgggactcaa tcaggcatcc gagtaaaaag ttattgtcgt ttgaattggc 360

tgagagcttc aacattcaat ttctagcgtc tcgatatatg acgggactca atcagacatc 420

cgagtaaaaa gatattgtcg tttgaattgg ctcacagctt caacattcaa ttttgagcgt 480

ctcgatatat tacgggactc aatcangcat ccgagtaaaa agtattgtcg tttg 534

<210> 5248
<211> 487
<212> DNA
<213> Glycine max

<400> 5248

gagcaacatt taacgacaat tacttttac tcggatgttt gattgagttt cgtaatatat 60

ggagacgctc gaaattgaat gttgaagctc tgatcaaatt caaacaacaa taactattta 120

ctcggatgtc tgattgagtc ctgtcatata tcgagacgct cgaaattgaa tgttgaagct 180

ctgagccaat ttaaacgaca gtaacttttt actcggatgt ctgaatgagt cccgtaatat 240

atcgagacgc tcgaaatcga atgttgaagc tctgagccaa ttcaaacgac aataacttt 300

tactgggatg tctgattgag tcccgttata tatcgagacg ctctaaattg gactgtgaag 360

ctctgggcca attaaaacga caataacttt gtactcggat gtctgattga gtcccgtata 420

ttacgagacg ctcgaaattg aatgtggaag ctttttgcca atataaacga cattatcttt 480

ttactcg 487

<210> 5249
<211> 474
<212> DNA
<213> Glycine max

<400> 5249

ctcaagcttg cctaattaac ctgaaattga gagaaaatta ttattaaaga cacaaaatga 60

aaatactaag tatttattac ctatacttaa cataaaatac ttataacatt acaaaataac 120

cataaattgg gagagtttaa tacaatttat acaagtttta tacacaaaag ttagtcgttt 180

tcaccgacta acatgtaatc gattacacaa tacttgtaat cgattactag tgtttctaaa 240

tgtttttatt ttcaaattta aacatgaaga gtcacatcta ttgatgtgta atcgattaca 300

ccttgatggt aatcgattac cagtgactga tttcgaaaaa taaattacca aaagtcacaa 360

ttcttaaagt gacttgtttt tgaagagttt ttcaaaagtc acaacctttg agtgactagt 420

tctaaaagag tcacaacttt taagtgacta gttttaaaag agtcacaatt ttaa 474

<210> 5250
<211> 433
<212> DNA
<213> Glycine max

<400> 5250

agcttgtaat cgattacaca tatactgtaa tcgattacca gaggagattt tcagaaaata 60

ttctcaacag tcacatcttt tttgtgtggt tcttgaatgg ctatcaaagg cctatatata 120

tgtgacttca gacacgaatt tgacaagagt ttttcagaac aaaaaggtct tatcctctta 180

aaaagcaaaa taattttatc ctcttacaaa ttccttggcc aaaactcttg tgattcaata 240

aggaattatt ttagtgctca aattgttcaa tctatctctt tatagagaga tttcttcttt 300

tcttcttctt cattctgaaa agggattaag agaccgaggg tctcttgttg tgaaaggatt 360

ctcaacacaa aggaaggatt gtccttgtgt gtttagaact tgtaaaagga atttacaaga 420

tagtggaact ctc 433

<210> 5251
<211> 568
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5251

taatacctat taaacagttg ccatgctgat tgttgtctgt ttttatgaaa gctgtctgcc 60

tctcatcaat aagaccaaat atcacttgtc tcaatctatt tgcttataac ttagctatca 120

ccttgtacat acatccaatc aaggagattg gtttgtagtc atcaaatgac tgggggtgtt 180

tggttttggg aattagagct atgaaagaag cattactgcc tctatggaag ctgccatgca 240

catggaattc atctacaaat tttctgaagt cagttntcat catttcccaa aattctctaa 300

tgaattttga agttgaagcc atcaggtcca agacatttgt ccccatcaca actccacact 360

gcttctttga tctccaaatc cgaaaaagga acagcccaaa actccctctg ctcctggttt 420

attgaaaaga attgcactct atcaagagtg ggtctacaaa actactgctc aataatcttg 480

tgaggaaaaa ttcacaacct ccttcttaac atcattgggt tctgattcca tcacccttaa 540

tgaaaattcc ttgagaccat tttatgtt 568

<210> 5252
<211> 511
<212> DNA
<213> Glycine max

<400> 5252

agcttaagct ttgaattgag tgccattacc attgatgatg gcataaggga gaccatatct 60

gtagatgagg tgtttccagg tgaacttttc tacctcccta actgagattt cttgtaatgg 120

ccttgcctcg atccacttag tgaaatagtc gatggtgacc aataagaact tgaccactcc 180

tagggctttt ggcaatggtt tcaatatgtc catgccccat atggcgatag gccaagtgga 240

actcaagcta tggtggttgt tgggaggggt gcgtggaaca tctgtgaatt cttacctcct 300

tgtaaagttg agggtgtcag ccaataatat ccgatacaca acactttggt tgctagggaa 360

cgacctccga tatggaggcc acatattctt tcatgtagtt atcgcatgac atagtctgct 420

tgttggttgt tcaagcattt gagtaagggt gttgtcaacc ttactttcaa tagttcatcg 480

tcaaagatga catagtaact atccttcctt t 511

<210> 5253
<211> 412
<212> DNA
<213> Glycine max

<400> 5253

tattgaaaag ctagtaaata cttggaaaat atccatttgc tacatgttgg tataaaaaag 60

taacaacgat aataaaatta attaaggcgt acccaacaag ctttctcttg ctttgaaaag 120

tcattaatcg taatgaaaaa taacaattaa acaacaatta ataaaagaga agtcaagctt 180

attgaaaagc tagtaaatac ttggaaaata tccatttgca acatgttgga gtaaaaaagt 240

accaattatc tcactaatga aacttatata taaaaaacat ttattaatta atcaacatgc 300

acctttcaat aagcgataat taatttaata aagcgtatta ctagagacat ggtgaccgaa 360

atatttatcc tcatctatta ttgattttat ttataaaaaa cttgtatgaa aa 412

<210> 5254
<211> 565
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5254

agcttgcttc tcctgaatat caaatgcatt ttgggaaaaa gaaatggaca aattaggatt 60

ggttagaaga gcactaactg aaattaaatt gaatttgaat ttaggaatgt aggcaacatt 120

atgcaagaat aaggtattgg ttaagcaaac cgaaccaatg gcaatgatag gtataacatc 180

attgttaggc agagtgacag ttttatcaga aacaagttgg taagatcaaa aatgatgaag 240

agaacaagaa atatgaatgt tggcaccaga atctaaaagc caacaatcat gaagaaaatt 300

agaagtggat atagaaagga tcataccact ggcagaagaa acaccttgag gaatgacagc 360

attggtagca tgactttcta aaagattcat caattggcta tattgttggg cagtaagttg 420

aaactgggaa cctgagtcac cagaggaaga tggtgagtga gacatatcaa cagatacttg 480

ttgagcaacc ttgtgtggtg gtcaaaagat gaagaatgtt tcttgacttc tgangaaaac 540

tagtccctag ataatttgga ggata 565

<210> 5255
<211> 358

<212> DNA
<213> Glycine max

<400> 5255

tccttaatca cctcattaag gactagaaca ccatgtagga tgtgtctgtt ttttatgaaa 60

gctgtctgcc tctcatcaat aagaccagat atcacttgtc tcaatctatt tgctaataac 120

ttaattatca ccttgtacat acatccaatc aaggagatgg gtctgtagtc atcaaatgac 180

tggggatggt taattttggg aatgagagct atgaaggaag cattactgcc tctagggaaa 240

ctgccatgta catggaattc atcaacaaat cttttgaagt cagctttcag catatcccaa 300

aattctttaa tgaatttgaa gatgaaacca tcacgtccag gacatttgtc cccatcac 358

<210> 5256
<211> 521
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5256

agcttgtgaa tgtacctatg aattgttttt ttgctatgta aataagccaa ccctgagaga 60

atatggcgag tgaaattccg aatgacagat tctattaggg caccacaatg atcacggaca 120

tatttattaa ttgaaccaag atgaacatat tccagataaa tataaaaacg gtcctcaacc 180

tgcaagcaca tatgttaagg ttttaatgct gttacagaat aatgattatt aatcttgagt 240

agctaattat gaagtaggag attgcttact atttcactgc caaaatactg tacgatgttt 300

gaatgtttta gattgctaag aancttaatt tcctggagaa aaagaataaa ctattaagaa 360

ggataaagag gatatagaaa ataacatatc ttcaaaacta ttacggaacg ataaatatat 420

atagccaagc agcccaagcc attattaagt aaaaccaacc ttataagtat tcaactacag 480

tggacactaa aacgaaatga ggagcgtcac tgcaaaatat a 521

<210> 5257
<211> 538
<212> DNA
<213> Glycine max

<400> 5257

agcttttcta aactcattca cactaaacag gccattcaac aactcattat acgttctggt 60

atcaggcaaa cacccatatc tctgcatctg atcaacaaca tgcattgccc accgtactct 120

cccaccatga cacaagccct tgataaacgt gatgaatatg acaacatttg gaggacaacc 180

atcagccacc atattatcaa taagccgata agcctggtca agcatagaat tcttgcaaag 240

cacatccacc atgggcgtgt aaaccacaac atgaggctga acctcacaat tcaccatcct 300

gttccacact tcaaaagcac cctgcaaatc cccagccttg gcaaacccgt gaacaagagt 360

gctattagca gacacattca gcgggcaaaa gcaatccttc ctcatccgat cacaaactgc 420

cacaggctca gccacattcc cactgcagca caaaccattc aagagtgtgt ggtaagcaac 480

aacattcggg ctaacccccc ccctaaccat aaccccacaa gcagcttgca ggcagcat 538

<210> 5258
<211> 550
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5258

ctaagcttga ataggatcct tatatgccga acccagaaac tcttcaccct tcctctctag 60

caactgccaa acattagtca aagcagcact ttccctaatc acacagcaaa caaggtttta 120

aaaaaaaaat cactaacctt tcatttcatg actaaaacta atacagacat acttcaatca 180

atcatcaatt cacataattg aagaaataaa gcacacaaac taatacacac atacttcaat 240

cactcataaa aaattagtaa ctaccacacg ttgataaaaa aaacacagac acacatgtct 300

ttgtaagtaa cataccggtt gggtatccaa gcgggtgggt cgggaccgta atccttgtag 360

caaccatagt acagcatctg atgaaaggag aagggaagtt canggttgag gatgctgttg 420

ctgacgtgct gccacatggc gggggtgcca ttgctgtgag tttcaatgat ttctgcgaga 480

cccctgtgga gagtggcagc gtcttctctt gcaattccat gggaatcaat atccgacaca 540

gtgatggaac 550

<210> 5259
<211> 354
<212> DNA
<213> Glycine max

<400> 5259

tgtaagttat atattcaata tattttatat gttttattta tgtagatgtt tatattttga 60

taaatgaata gttttaggta gtataagata acaattttgt atagtttagt ttgaattgtt 120

aatgttatat atgccagatt atttttttgat aaatgaatag ttttaggtag tataagataa 180

taattttgta taatttattt tgaattgtta atgttatata tgccagatta tattttgata 240

aatgaatagt tttaggtagt ataagataat aattttgtat agtttagttt gaattattaa 300

tgttatatgg tagattagat ttaggtttat ttgataaatt attgttgcaa ccta 354

<210> 5260
<211> 464
<212> DNA
<213> Glycine max

<400> 5260

aacttagaga agtgaaggca ggctattatg gaacttgggc agcacatcct ggtctaattc 60

cagtctgcat ggagattttc aacaacaaca tgggcaatgc tcccaaccaa aataaagaca 120

atgaaacgcg aagatggcgc aaacataacc gagcaagacc tcttgcagat accaagagga 180

gcctgcacca tggaaggtct cagatttatg gttatatgct tcttaattta attattaaac 240

tcttaataaa tatcttaagt cacttgagcc ttttttcaat ttaattaatt tttttttatt 300

aaaacattgg cactagtatg tgattaacct atctcttttg tattgataca agattaagct 360

attcttatct caagttattt tattaactat gctcttattg ggacaaggaa aaaaggaact 420

acttaaagac acttgacaaa gggaatataa atactattca aaca 464

<210> 5261
<211> 242
<212> DNA
<213> Glycine max

<400> 5261

tttgtggaaa ctgctctttg gaggaatgga aaaaggggaa tgtgctgctt ctgcaaatca 60

gaattacctg tggaaaaaga ttcacctgca cagaaattgt taggtaaatt tttgtcatca 120

ccttttttctg gaatagaggg aagtttggca ggttcatttg cagatgagga aggtgctacc 180

ggttgaagtc cttgacactg ctttcccgac ctcaatgaaa tggcacttgc ctttttgggg 240

at 242

<210> 5262
<211> 421
<212> DNA
<213> Glycine max

<400> 5262

agctttcgag aaatttaaat ggtcatcact tttcactcgg aagtccgatt caagcgcatc 60

acatatagag acgctcgaaa ttgaacaacg gaagctctcg agaaattcaa atggacatat 120

cttgtcactc ggaggtccga ttcaggtgca taacatatcg agacgcccga tattgagcaa 180

cggaagctct tgagaaattc aaatggtcat tacttttcac tcggaagtcc gattcaggca 240

cataacatat agagacgccc gaaattgaac aatggaagct cttgagaaat tcaaatggtc 300

attacttttt cattcggagg tccgaatcag gcgcttcaaa tatggagacg ctcgaaattg 360

gaacaacgga ctcctctcat atattcaaat ggtcataact tttcactcag aggtccgatt 420

c 421

<210> 5263
<211> 562
<212> DNA
<213> Glycine max

<400> 5263

agcttgtaac aaacctaatt cataatattc tcatgttaaa aataaacaaa caaaaatatc 60

atttaaattg tgtctaacta cattaaattg tattaaattg aatttaggtt taattactca 120

tttgattctt atagtttcat atttgtacct tttagttcat atagttttaa aataattttt 180

ttagttctta taatttacat tttaattctc ttttagttct tgtagtttga aattgatatt 240

tttagtcctt ataatttata ttttaattct cttttagtcc atataatttg aaagtgattt 300

tttaaatcct tatattttat attttaattc ccctttagtc tttaccatca aaatatgagt 360

aatattatca attacaatta actacaaaaa tattaataag taattcataa ctaatttatt 420

ataacataat ttgtaataaa aaattattga taatttataa ttaatttgta gctaattatt 480

tttatatgaa ggagtgtaaa tgatgagaac taaaaagatg acttttaaac tataggagtt 540

aaaatgaaat taaaatttaa tt 562

<210> 5264
<211> 468

<212> DNA
<213> Glycine max

<400> 5264

agcttctaaa agagtttggt agatctctag gttcagtgga aaaccatcag cccaatggca 60

tgtctcagag atagacccat cagatgatct gcaagaaaga gacataacaa cagttcgaaa 120

ggtttgcatt gattcaccat tctttccaat atccatgggt ttctcaaatg ctccgcggat 180

tatgtgccgt agactctgtg cagaagggtc tgatttatct aagggaagat gaggatgcaa 240

gaggagtcct gcttcaagaa ccttcaaatt tcttctcaac caagcttcat actcttgttg 300

acttggaaaa tctgaactcc tgaacagttg tataagctct agtggaagaa ccactgactc 360

catgcgtctt tcaagctatt tcatgaacag agacctagtc agttttaata ttgtgattaa 420

acagatgtaa gaaagaacca ttatgcagat gttcaaacat gacatttt 468

<210> 5265
<211> 484
<212> DNA
<213> Glycine max

<400> 5265

ttttatttt agtagataag gatgaattcg tggccacctc atggactcct ctaagaacaa 60

tagcgtcatt tcttgcactg aattgttggg agttggaagc catcttctca attagattcc 120

tagcctcaac aggggttata tcaccaagag ctccaccact ggcagcatca atcatactcc 180

tattcatgtt gctaagtccc tcatagaaaa attgaagaag gagttgctca gaaatctggt 240

ggtggggaca gcttgcacac aatttcttga atctttccca gtactcatac aagctttctc 300

cactaagttt cctgatgcct gaaatgtctt ttctgatgga agtggtccta gatgtaggga 360

ataatttctc caagaacacc ctcctaaggt cattccagct aaaaatggac ctgtgagcca 420

ggtagtatag ccaatctttt gccactccct ccagagaatg aggaaaagtc tttagaaaga 480

tatg 484

<210> 5266
<211> 553
<212> DNA
<213> Glycine max

<400> 5266

agcttaaacg tgttataata aattgaatga ttgaaggacg tggatgttaa atctgaacca 60

atgaaacagg aacttgactt gtatctatgt tcaagagtgc ccgaatgcga tcccagttga 120

cccaattatc gttagcgtac gaggcaacaa ttacactagg taagctagac aaaccaacaa 180

tagggcaaag aggggtcaca ctcaccccac taaagatgat gtggcacgta attgggcaaa 240

gagagtgatg tagctccatg tggagcttgt aggccttgaa tcttcttcat caatggagtc 300

ctttacttct tgaagaagaa tggcagcgga acggagaaag aagatgattg gagacccact 360

tttaggagaa gatgcgttaa gaagaagctc accaccatag gaaaccattg ataaaagctt 420

gaaggaagtt taacatgagt ggagggagag ggagagaatg accaccaaat ttagtgcctc 480

aaatgagggc tgacttttga ggataatcct caaatgatca aagttgaaat aatcacacac 540

atgactttta ttt 553

<210> 5267
<211> 344
<212> DNA
<213> Glycine max

<400> 5267

agcttgcaat cgattacatc atttgtgtaa tcgattacca ggcacaaaaa aattcaaatt 60

tcaagtctga ggagtgacaa ctcttcacaa actaactgtg taagcgatta ctacatttat 120

gtaatcaatt accagtaagg aattttcgaa aataactccc aagagtcaca actattcaag 180

aagtttttga atggccatca aagccctata aataggtgtc ttattattct caaaatattc 240

cttggccaaa acacttgcaa attcaataag gaatcttgct caatctttaa ttgtaatatc 300

cttcttttaa agagagaaaa ttcttcttct tcttattcaa agag 344

<210> 5268
<211> 275
<212> DNA
<213> Glycine max

<400> 5268

tgaccaggaa ttatttgtat tggttggatg ttgaattctg gttgttcctg gtgcggagat 60

gatggtacag cgggtgaacc aggagcggca gtttcttttg gtgaggaagc catggaaaaa 120

cagagcgttt ggaatgattt cggaaatctc agaaaactat tgggaaatgc tggagaaaac 180

acgaatgcca agcagatata aatttgaatg aagaatgtat aggggcgtgt gaagcaacgg 240

acaaattggc tttgagggga acgtgctatt aaagt 275

<210> 5269
<211> 507
<212> DNA
<213> Glycine max

<400> 5269

agcttggaag aagaatacat ggagatttca tctgaatatg gcgccactaa tggaggaaat 60

aaagtttaca tactaaagaa agccttatat ggtctcaagc agtctcctcg ggcttggttt 120

attaggttca ctcaagctat ggtatctttg gggtacaagt aaagccaagg caatgatgag 180

cttgaaaaat agaccctgag ggagaggtta gcagcccaat ttgagatgaa ggatcttatg 240

aggctaaagt actttctcgg gatagaggtt gcttatactt tacgaagggt atattcattt 300

ctcatagaaa atatatactt gatctcctca aagaagctga caagatgggc tgtaaaacca 360

ctggagcacc catagagcaa aatcacaaga ttggaaatga tgaagaaagc ccaaaggtat 420

agaagacaca ataccaaaga ctttggggaa aacttatctt ttattcccca ccaggcttgt 480

atagcctatg cagatagtgt ggttagt 507

<210> 5270
<211> 400
<212> DNA
<213> Glycine max

<400> 5270

agcttatgag catttgaatt tctcgtgagg ttccgttgtt caatttctag cgtctcgata 60

tctgatgtgc ctgaatcgga gatccgagtg aaaagttatg acaattttaa tatatcgaga 120

gcttccattg ctcaattttg agcgtcttga tatctgatgt gcctgaatcg gacatccgag 180

tggaaagtta tgacaatttc aatttctcaa gagctttcgg ggttcaattt tgaacgtctc 240

catatgtgat gcgcctgaat cggaccttcg tgtgaaaagg tatgaccatt tgaatttctc 300

gtcagcttgc agtgttcaat tttgagagtc tcgacatctg atgggcctga atcggacatc 360

tgagtggaaa ggtatgacaa ttttaatttc ttgagagctt 400

<210> 5271
<211> 608
<212> DNA
<213> Glycine max

<400> 5271

agcttgtcct tcacggcaaa catgatagca ctggcatgtt ctgcagcatt gcctacaatt 60

ggaagcaaga tgacagaaat aaaagccact gacatattca atgactcaga tgctccctgc 120

aagagaccag aaacacaatg tcaatgaatg aacttatgat gcacaattta tggataatag 180

gaatattgtg aatgtatgaa tacagagttt tgatgatgtc aaagtaaaat caaacaaggt 240

tgtttcaaca aacattattg ctttaagatt aattcaaggt caaacaaata agatcaagaa 300

aaagataagg tctcaaataa tctcactggt tgattgattt ttgccttaaa acaaattgtt 360

tccaagagat caaaggctct agtattcgat tactaggcaa tgtaatcgat taccaggaga 420

caagtttaca aatcaacttt tataaaaaga tttgaaattg aatttttgat cttgtaatcg 480

attaccagat gtttgtaaaa agattaccag taaccgaact cttgaaattc aaaatgaaaa 540

gtcataccct ttaaaatata actgtgtaat cgattaccag tgagaatatt tcagaaaagc 600

tttttgaa 608

<210> 5272
<211> 476
<212> DNA
<213> Glycine max

<400> 5272

aactaagctt ataagtctct tggattgaaa cagcctcccg ccagtttttt taaaatttat 60

gagtcatttc ttcattcgct ttgaagagaa tgtcatggat cactgtatat accaaaaggt 120

tagtgggagt aagatttggt tccttgtatt atatgtagat gatattctgc ttgcgactaa 180

tgataaatgt atgctatatg aggtgaaaca atttctctca aagaactttg atatgaagga 240

tatgggagag gcatcttatg tcataagcat aaagatccat agagaaagat ctcgaggcat 300

tttatgcttg tcttaagaaa cctatattaa caaagttttt agagagattt aatatgaaag 360

attgttcacc aagtgtagct cccttgtgaa gggtgacaaa cttgctttgg tcaatgcccc 420

aaaaatgatt ttgagcggga acacatgaaa aatattccat atgctttagc agttgg 476

<210> 5273
<211> 465
<212> DNA
<213> Glycine max

<400> 5273

atactagctt cacatcagac cacttccagg gtgctggaac tacttcacat ggacttgatg 60

gggcctatgc aagttgaaag ccttggaaga aagaggtatg cctatgttgc tgtggatgat 120

ttctccagat tgacctgggt caactttatc agagaaaaat cagacacctt tgaagtattc 180

acggagttga gtctaagact tcaaagagaa aaagactgtg tcgtgaagag aatcaggagt 240

gaccatggca gagagtttga aaacagcagg tttactgaat tctgcacatc tgaaggcatc 300

actcatgagt tctctgcagc cattacacca caacaaaatg gcatagggaa aaacaggact 360

atgccagaag ctgctagggt catgcttcat gccacagaac ttccctataa tctctgggca 420

tgagccatga acacagcatg ctacattcac aacagagtct cactt 465

<210> 5274
<211> 491
<212> DNA
<213> Glycine max

<400> 5274

tattgaatgt tttttatttt aagaaattat gattatataa tttgattaat ttttaattaa 60

attatatagc atatgatcac tttgttaata ttttctctaa ttttttttagt aaatatatgg 120

aaaaaatgat aaaataacaa aagattatga cttccttaat tttataaaag ataaatttaa 180

attatatgaa tttaaatttc aaattttaca aattaaaaaa aaaacagatg ctaacttaaa 240

ggattctttt taaatgagta ttaaaagaaa atatttatat ttaaaataat acgtaatgta 300

atattggaaa attatttaat cacttatatt agaaagaaaa aaaaaagtaa tgcttaatgt 360

attttgtaaa cctctagtat gcttgatatt tttaacacgt gtttgcttca tttggctttt 420

agtatcagac aaacatcact atattacttt ctttaatctt tactaaactt ttattttcaa 480

tgacattgga t 491

<210> 5275
<211> 411
<212> DNA
<213> Glycine max

<400> 5275

tcttcaccag agcagcatca aggaaagtgg tttgtactat caatggggtg gggaaactac 60

ttttgaacaa agcgaagtcc agaatttgta gaccaggatt ggagctactg aagcttacaa 120

ttgccagggc tgaagatttg cctgcattga tttggaaatg aagcaagcct tgagggaatg 180

ccataacatc ccccttctta agagttttga ggtagacaat gttggcagaa gaaatgaatc 240

cagctaggat gctcccttca attacaacaa gtaattctga agctccagga tgagtgtgaa 300

gtggtataac ttcacctgct gctaagtcca aacgtgctgc ggaaatgcca agaccgttga 360

gaccagcaaa ctgagcatca aatgcagggg tcactgcagc tttgataatg t 411

<210> 5276
<211> 511
<212> DNA
<213> Glycine max

<400> 5276

agcttggagg agagcaaatc agctatatct ttcccaaacg atatgagtct cccataattt 60

atatttttca taaacccaag attctctttg ccattttgaa atgcaccgga agaatcattg 120

ttcttgttct tctttacact gcaggtatag gatacatcag ctgaccaatc aaggccaccc 180

catatagtat acccaccttt gggtatcatt gacatggttg aatcccacgt tcgggtcatc 240

cgcattagat gctgtaaagt tttaagacca aaaacatcct tattccaaaa acctggtgcg 300

aaagtcctgt atgaggttta gagattcatt agattatata aggtatcaca gctaacatga 360

ttcattttta aacaatatca tcaatggaaa ttacataaaa attcacccct acaaaatctg 420

gataaaattc ttatatattg gcaaggaaac acaattttcg aagaacttat taacagaatc 480

cacagcctta taaaaatatt ttattggagg a 511

<210> 5277
<211> 487
<212> DNA
<213> Glycine max

<400> 5277

actaagctta agaaaaatgg cctcagcaaa cttcttattt ccaaaaggaa attcaatcaa 60

tagaccttca atctttaatg gagagggtta ccactactgg aaaacccgaa tgcaaatttt 120

tattgaggca atagacttaa atatttagga agccatagaa atagggcctt atatacccac 180

cacagtagaa agaaccacaa tagatgggag cacaacaagt gaaagcataa caatagaaaa 240

acctagaata gatggtctga agaggataga agacgagcac aatataattt aaaagccaaa 300

aacataatta catttgccct gggaatggat gaatatttca gggtttcaaa ttgtaagagt 360

gctaaagaaa tgtggaacac tctacaatta acacatgaag gtacggcaga tgttaaaaga 420

tctaggataa acacattaac tcatgaatat gaactattta ggatgaatgc aaatgaaagc 480

attcaag 487

<210> 5278
<211> 383
<212> DNA
<213> Glycine max

<400> 5278

ttgtccctag gctaaacccg tatcacagaa gaaaaagaag atgggagaag aaagatgcaa 60

agctgtcaga aaaaagtaga caaactcctt aatgctaaat tcattagaga catcagatat 120

tctacttggc tcgccatcat cgtcatggtc aaaaaggtca aaggcaaatg gcgaatatgc 180

accgactaca ctgatctaaa cagggcgtgc cctaaagatg attacctct gcacaacatc 240

gaaaaactgt ggaaggaatg ccttccaaga ttattttgat gatgccaaag aatcaagtgt 300

aaaacaagtt tcaagaatca agatcaagat tcaagattca agtaaagtat catgaactca 360

gattcaagaa tcaagagaag act 383

<210> 5279
<211> 576
<212> DNA
<213> Glycine max

<400> 5279

agcttataaa gaaaaatgat ggcatggttt taacccaatc acattatgtt gataagctat 60

tgaagaagtt taattatttt gatgtaaaac ctatttctac ttcttatgac tcatccatta 120

agttaaagaa aaaattgaat aaaggaattt cttcacataa atattctcaa attattggtt 180

ctttgttgca tttgacaaac ttctctaggc ctaacattgc atatgaaatt ggtagattag 240

gaaggtatac taataatcat gatcattctc attggattgc attagaaaga gtttttagat 300

acttaaaagg aaccattaat tatgacattc attatacatg ttctcgtgca gtaattgaag 360

ggtttagtga tgcaaattga atttctgatt ctaatgaaac aaaattgaca agtggttatg 420

tctttactgt agctggtggg gtagtatcat ggaaatctgc taaacaaact attatttcat 480

gttctaccat ggaagcataa attattgctt taaatactcc tactagtgag gttgagtttc 540

ttaaagaatt gttattgtga tttgccattg gttaat 576

<210> 5280
<211> 506
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5280

agctntgagc taattcaaac gacaataact ttttactcgg atgtctgatt gagtcctgtc 60

atatatcgac acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaatatc 120

tttttactcg gatgtctgat tgaggcccgt aatatatcga gacgctcgaa attgaatgtt 180

gaacctctga gcaaattcaa acgacaataa ctttgtactc ggatgtctga tatagtcccg 240

taatatatcg agacgctcca aattgaatgt tgaagctctg aggaaattca aacgacaata 300

acttttttact tggatgtctg attgaggccc gtaatatttt gagacgctct aaattgaatg 360

ttgaagatct gagccaattc aaaacgacaa taacttttta ctcggatgtc tgtatgagtc 420

ccgtaatata tcgacacgct cgaaattgaa atgttaagct ctgacccaat tcaaacgaca 480

attacttttt actcggatgt cagatt 506

<210> 5281
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5281

gaactcctgc ttccatcatc tcttccaaga ttatgttcca atatcttttt gtcatttata 60

tttatcccca cacttttctt tcatttcaaa atcgaaattc tataaatttt ttgaaatgaa 120

agaaagagac ccggtatact gaaatagaaa taagtgttcc aaaggaacct tctcttttac 180

cgaagattgg cctttgataa atgatcgggc catttttttct atttaatatt taatatgatt 240

attctctnta taatctttct tttattatac aaaataaaat gaccgaagat gaatccgctc 300

ttaagaatca ttattttagg aattataaat actcagatgc tgcgatgtat cgcataaatt 360

ctttg 365

<210> 5282
<211> 480
<212> DNA
<213> Glycine max

<400> 5282

agcttcttac aaagcatacg gctttctgga tgtatatgat gatatctata cagatggatc 60

ttatatatct atatatctat agatagatat atagatgtag atatatagat atagatcata 120

caatgaagta ccgcacgagt gggtatatag gaatccaaat ctgccgaatc actcatgtta 180

tgatcttcta catcctaggt cttcccgttc cttcatctgg cttatgttct tcatgtagca 240

ttcagactga atgactctat gaaattacgt cgctacttcc acatggtacg ggtaacgtag 300

gagacatctc tatttttccc gggggggaatc cttagaatta ccacagctta gcttttaatt 360

cgcctctgac catcaaatga aatgtgaata acgccgtctc ccctttttg agactttgaa 420

acaaagggtg cttccggttc tgtcggtggt tgaaacaatt ttgtcttctc catattacta 480

<210> 5283
<211> 369
<212> DNA
<213> Glycine max

<400> 5283

tttaaatttc ttttaagatc tccatgctga attaattttt gttttgaatt cttaatacat 60

ccttttgttg cattggattt cttatatatt aaatgtgatt ttgagttttt attgtataac 120

gtgttacatc tcaatggtag atatatagta ggaattgact gttgagatga tatcatatta 180

tcactcactt actcaaaata aaagttttga catattaggg atattatatt ataaaaaaat 240

tatttgagac ccaagtaaaa attgatcatc tatttattat gatatcaaag atgtttaaac 300

attttttttgg cattttagag tgaattgaga tgtaaagaaa gagggatatt tgtgaattgc 360

tagaatcat 369

<210> 5284
<211> 331
<212> DNA
<213> Glycine max

<400> 5284

agcttgtagg gttaaagtct catgattgtc ttgtcctcat gcaacaattt tcaaccgtgg 60

ctatacgaga tatcttgcca aacaaagtcc ggttatcgat aactcgactg tgctttttct 120

tccatgctat ggttagcaaa gtcattgatc cattcaagtt tgatgagttg gaaaatgagg 180

ccccaattat attgtgccag ttggagatgt atcttccccc tactttcttt gacatcatga 240

ttcacttgat tgtgcatctg gacagagaaa tcaaatgttg tggtcctgtt tatctactgt 300

gaatgtaccc cgttgagcga tacataaaga t 331

<210> 5285
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5285

tgtaggcctt ggatcttctt catcaatgga gtcctttgct tcttgaattt taatggcagc 60

aaaatggaga agaagaagag ttgagcggag acgccacttc aagaagaaga tgagtctaga 120

agaagctcac caccatagga agccacggat aagagcttga aggtaggaga agatgaatgg 180

agggagaggg agagaaggag caagaaattt tgtgcctcaa aagaggtgtg aactttgaag 240

tttaattctc aaatgataaa agttgaaaaa atgcacacac atggccttta tttatagcct 300

aagtgtcaca caaaattgga gggaaatttg aatttctatt caaattttac ttgaatttga 360

aattgaattt gtggagcaaa aatttcacta attatgatta gtgaatntta gctatggttt 420

agccccctaa tcgaagatca 440

<210> 5286
<211> 240
<212> DNA
<213> Glycine max

<400> 5286

aactccccct ttgagaaaat tcaaacgaca ataacttttt actcggatgt ctgattgagt 60

cccggaatat atctagaggg tcgaaattgg ataccgaagc tctgagcaca ttcaaacgac 120

aaaaactttt tactcggatg tctgattgaa ttccgtaata tatcgtaaag ctcgaaattg 180

aatgccgaag ctctgagcta attctaacga caaaaacttt ttactcggat gtctgattga 240

<210> 5287
<211> 488
<212> DNA
<213> Glycine max

<400> 5287

agcttatgct aatctacctt gcaccccaag ttcaacacgg tcccaaataa atcaaacact 60

atcatatata ggcataggca catccatcat tctctcatca attcatccat tattagcttt 120

tttgtttctt caatttttc ccatttcttt agcccacaat tccaaggaac aaaaatgatg 180

agagagggtc aacaacatgg tatggtgaga tcttattgga tcctactaaa tccacttaat 240

cctagaccta ataccagaat cattaatcgg tctaattccc cttacaccac tagaaatatt 300

tggtagggtt tcttctaagc caactaatca ctcaaagtac acaggaaagt gtggcaaacc 360

acgttgccct gggtgccacc tctactcagc ttggaagtcc aagggccaaa cccaaggtac 420

caaaaagcac aaacacttag taacacacta ctataaaaaa taagctttaa ccgatgtgga 480

ttcaatga 488

<210> 5288
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5288

tgtaaacttg tccaaaatcg cgaagtgaac ctcggatccc tgtcagatac aatactagaa 60

ggaattccat gcaaccttac tactttcttg atgtacaact ccactagctt ctccattcta 120

tacttcatat tcaccggaat aaaatgagca gatttggtga gtcgatctac tatgacccac 180

acagcatcat gtccacgact agtcttangt aaactagata caaaatccat agatatgctc 240

tcccatttcc attccgggat ttccaatggc ttcaattctc ccgatggtcg ctggtgctca 300

accttagcct tttgacatgt caaacatctt gctacatatt cagctacatc tttcttcatg 360

ccatgccacc aaaaacttct cttcaaatct tggtacatct tagtcattcc tggatggaaa 420

ctaagacgac ctttatgcgc ttcttccaag atcttaactc 460

<210> 5289
<211> 633
<212> DNA
<213> Glycine max

<400> 5289

agcttctata gaaggttcgt tcctaatttc tctacaattg catcacctct caatgagctg 60

gcgaagaaga atgtggcatt tacctggggt gaaaaacaag agcaagcctt tgctttgctc 120

aaagaaaaac ttactaaggc atctgttcta gctcttcctg acatttctaa aacttttgag 180

ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaagg tgggcaccct 240

attgcttatt ttagtgaaaa acttcatagt gccaccctca actaccccac ctatgataaa 300

gagctttatg ccttaataag agccctccaa acttgggaac attaccttgt ttccaaggaa 360

gttgtcattc atagtgatca tcaatcactt aagtacatta gaaggcaaag caagttaaac 420

aagaggcatg caaaatgggt agagtaccta tagcaatttc catatgttat caaatacaaa 480

aagggaaata caaatgtggt agctgatgcc ctctcttcga gacacacatt gttttgctcc 540

ctaagagctc aaatttacga tttgataata tagggacttg tatgctttag atgaacattt 600

ctcttccatt tatgatagtt ggggaaaaaa ggc 633

<210> 5290
<211> 378
<212> DNA
<213> Glycine max

<400> 5290

gacactatga aactaagctt gagcaacttc aaacgacaat aaacttttac ttcggatgtc 60

tgtatggagt gcccgaaata tatcgggacg ccccgaaatg gaatacggaa gcttttagaa 120

aattcaaacg acaaataact ttttattcgg atgtctgatt gagtcccgta atatatcgaa 180

acgctcgaaa ttgaatgttg aagctctgag caaattcaaa cgacaataac gtcttactcg 240

gatgtctgat tgagtctcgt aatatatcga gacgctcgaa atggaatacc gaagctctga 300

gcaaattcaa acgacaataa ctttttactc cgatgtctga ttgagtcccg taatatatcg 360

agacgctcga aattgaat 378

<210> 5291
<211> 183
<212> DNA
<213> Glycine max

<400> 5291

gatcaaaaga tttgggatgg atagtgcaaa acacatgtct acaccgatga gcactaattg 60

ttacttagat aaagatgaat ctggtcagtc tatagacata aaacaatatc gaggtgtgat 120

cggatctctt ctttatttat ctgctagtac acctgatatt atgtttagtg tatgcatgtg 180

tgc 183

<210> 5292
<211> 486
<212> DNA
<213> Glycine max

<400> 5292

ccggtcatgg aaagacttgg caactgcctt cattatgtag taccaataca acatgggtat 60

ggctcctgat cggaaccaac ttcagagcat gaccaagcgg gaacatgagt ccattaaaga 120

atatgctcaa aggtggagag acctagcagc ccaagtcgtc ccacctatga ctgagaggga 180

aatgatcacg ataatggtag atacgttgcc tacgttctac tacgagaagc tgataggata 240

tatgacgact aactttgcag acctcgtctt caccggagaa agaatcaagt ctggactgag 300

gaaaggcaag tttgaatatg cctccaacac tgtccccaac aacaatagaa gagccccagt 360

ggtgggcaca ctgaaaaagg aaggagatac ccacgcagtc accaccgccc caacatggat 420

gaaaacgccc cagaacggcc aaaactcata ccagcacaac cacgcgaatc ttttttatcc 480

gagccg 486

<210> 5293
<211> 471
<212> DNA
<213> Glycine max

<400> 5293

agcttggaag cattttgata gaatgcattc tatgtttact ctcctaggaa tgtcaaatta 60

gaaaacctta ctcttgttgg ctagttatct taactccata tacccccccc ccccccccct 120

gatttttgca ggaagaggga aattatggtt ttgaaattct taattccatg tccatcaaat 180

ccaaagcaca aaattgatgt gactttgcaa ttgctaataa atgagttatg taccttatgg 240

aatgatggcg tactaaatca ccatgtggct ttgaggctaa ttcttgagat aaggctgttt 300

tgatgtggac tttaaatgac ttctcaactt atgggattgt gtcatgttgg atgacgacag 360

ggacacttgg attgtctatt tgaatggaaa catacaaagg cattcacaaa tataaacttt 420

gtcaaagctt tggatttttg attgtcatca ccaattcctt gcccttgatc a 471

<210> 5294
<211> 401
<212> DNA
<213> Glycine max

<400> 5294

tgctctaagc tgtcaattcc cttagaaaaa ttttgatttt tatagcttca tcaaaaccat 60

gagtgggagt ttgcctaagc aaatatctaa atctttccca agcttctcta aggaactcat 120

catatgtttg ttggaaaata tatagcagcc tttcccttgt tgatctttga ccttgggaaa 180

tacttgtacg gaaacttggc cattacgtca tcccacctaa acaagttatt cggaggaaag 240

gatcttaacc atgagatgac atctctagct agagaaaaaa ggaaacaagc acaaacttca 300

ttcgccacat gatttatctt cacggtgttg catatgtcaa tgaaggttga ttgatgtgtt 360

tatggattct catgattatg ctcatggaat tgattatttt g 401

<210> 5295
<211> 383
<212> DNA
<213> Glycine max

<400> 5295

tattcaaata tgacttaaaa caaaaaagaa tttcatattt ttcagggatc aagaatacat 60

tttagtccag aattgaagat aacacgtttt ttaaaatttg gacattgctg ttcctcaatg 120

gttattttgg tttgtgttgt agggagtctc tgctgttagg gccttttatg agctacttag 180

ccagtccagc ttaaatgtcc taaatcctga agagaacaag catgtagccc cagtggagct 240

ctgtcccatc ttgaagatgt tatacagaat attgataata aggtaacaca tttagctacc 300

tccttttta cctttgaatg atcaaaacag agaactgaat tctaattgtg aaactaccat 360

tttcaatggt ttttgctgat ctt 383

<210> 5296
<211> 509
<212> DNA
<213> Glycine max

<400> 5296

agcttgacca ggaattactt gtatgggttg gatgttgaat tctggttgtt cctggtgcgg 60

agatgatggt acagcgggtg aaccacaagc ggaagtttct tttggtgagg tagccatgga 120

aaaacagagc gtttggaatg atttcgaaaa tctcacaaaa ctattgggaa atgctggtaa 180

aaacacgaat gccaagcaga tataaatttg aatgaagaat gtagaggggc gtgtgaggca 240

acggtcgaat ttgctttgtg gtgaacgtgc tattaatgtt aagtgattcg tttgggcacg 300

ttcagattgc agtagctgct ataattcctc tagcagacaa atgcccagct tgcccctcag 360

ttattcaaac tgatttgcat ccaaagcctt tgagaaaata tctgctattt gttcctcagt 420

gtcaacatgc ttcagtgtga tcactttatt atcaacaaga tctctgatat agtgatgcct 480

aatgccaatg ggcttggttt tgctgtgtt 509

<210> 5297
<211> 544
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5297

agcttctcaa ccaaatccaa aaccctcact tgcttcgtga attgccagca gtaacctctc 60

ttctaaatgg tgtttagatg gatactccgg cgagctaata gaataatctg cttgaagaaa 120

attccgtttt gattatttca aatcacacga ctataatgat ccatcaaaat ataaatatag 180

cctatagctt acagataatc acactgaatg gtaataggta tataggccta tagggaattt 240

tgaaaagggg gaaaagacat accaagtatg agcagaaggc aagtgatcag gacttccata 300

tgctttgtgt atctgaaact tctgggagcc tgaaattcct tgaagagcgc taaagccttc 360

caaaggcacc tgaaacatta gtgaaaaaaa tgttttaacg gcttcaagtt tgcaaaaata 420

atatgccaac atcattaata tatcataaca aatcccagga caaagagaaa gctctgatcc 480

aaggtgggca aaattgagat cttatgggga gaagaatgan agaactcgtg aacatgaatc 540

ataa 544

<210> 5298
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5298

tgctaatagc ctcatttgga gattatgaga taaaggagac acaataagag ttgattctaa 60

naatattatg tcctgngcta tatggaatac acttcaactt cttgaagaac ctttgggaga 120

ttatgaacga ggatatggtg aggttcattt tcgaattcca tgctcatgga antctaccta 180

gaggtactaa tgcttctttc ataactcttg tgcccaaagt agaagaccca tataactgag 240

tgcgttatac ccataccttg gtgggatgta tgcacaaagt tctaacanaa ctcttataga 300

atagaatgac aaacgtgatg aatggggtga atgatcatag acaaag 346

<210> 5299
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5299

ctacaagggt atgataaatn tgctggaaga atcaatgaaa cattggacta tcgctccgcg 60

agagatgcgc aaggacatgg aacacacaca gcctcaactg cagctggtaa catggtgagc 120

aatgccagcc ctttcggctt ggcacgcggt tctgccagtg gaatgaggta cacctcaaga 180

atagctgctt ataaagtatg ctggcgtnta ggctgtgcta actctgacat attggcagct 240

attgatcaag ctggtgctga tggtggtgat gtgtagtcac tctctntagg tgggatgcta 300

aaccttacta caatgacagc agtgccatag cctcatttgg agcaacacac aaaggagttg 360

ttgtttcttg gtcagcacgg caatctggtc cctctagatc aactgctgga tatgttgccc 420

atggatcatg actggtgctg ctagctacac t 451

<210> 5300
<211> 281
<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 5300

gctatgctgc anaaattaca atagacctcc tcaaccctag cagcaaaatc aaccacagca 60

gaacaattat gacctctcta gtaacagata caatcccgga tggaggaatc accctaatct 120

cagatggtct agccctcaac aacaacaaca acaacaacct gctccttcct tccaaaatgc 180

tgctggtcca aacaggtcat acgttcctcc tccaatgcaa caacatcaac aacaatagca 240

acaatagcca cagagacaac aatcaactga ggccccttct c 281

<210> 5301
<211> 241
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5301

agtcccgtcc aggtagtccc ganatagact agcctcacag tgatcagana tgagaacgat 60

gagctgattc ctactcgggt gcagaacagt tggagagtct gcattgacta taggaggctg 120

aaccaggtta ccaaaaagga ccatnttccc ctgccattca ttgaccagat gctagaacgc 180

ctggcaggta aatcccacta ctgtttcctt gatggttttt ctgggtatat gcaaattact 240

a 241

<210> 5302
<211> 357
<212> DNA
<213> Glycine max

<400> 5302

gctatgaaat agtttattat gactccttcg ataagcttat gagacaataa gaagttcgcg 60

acattaagct ctctaagagc ttatggaata tgggtggtgt tggataaata acttaattaa 120

ttacttattg aataagtgat tatcatggaa aagttgttta tagaaccaaa gaggaaataa 180

tgtaaggtgt aaggtgttct cataagctat cgtagagagc ttattgaagt aaagctgaaa 240

agagcttata tgcatattgt aaccgatttt ttataagctt ttccaccagt tacataaatg 300

tttatgtcat aagataagtc aaataagctg tgtaaataag ctcttaaact caaactt 357

<210> 5303
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5303

atgctctngc atnctcanac actcggtcta ttgntgatct gcctgaaggt aagcaaccat 60

atggttgcaa atgtgtgtac aagatcaagc atcatgctga tggatccatt gaacgataca 120

aggcccgttt ggtggcagag ggatacactc aactagaggg tgtggattat nttgacactn 180

tntcaccagt tgctaagctt accacaattc gcacccttct atctgtggct gctattaagg 240

actggcactt agaacaactt gacgtcaaca atgctnttct tcatggtgat ctgcatgagg 300

aagtatatat ggatctgcct cctgagtctt actgcctgtt cttctttaat aagtctgaaa 360

tacataagtc ttatat 376

<210> 5304
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5304

gcgtctcgat ataatacggg actcaatcag acatccgagt aanaagttat ggtcgttgga 60

atagcctctg aggttcaaca ttcaatttcg agcgtctcaa tatatttcgg gactcaatca 120

gacatccgag taaaaagtta ttgtcgtttc aattggctca gaggttcaac attncaattt 180

gagcgtcccg atatattacg tcactgaatc ggacatccga gtaaaaagtt attgtcgttt 240

ggaattgctc aaatcttaaa catttcaatt cgagtgtctc gacatattac gggactcaat 300

caaacatacg agaaaaaagt tatggtcgtn tgaatttgct ctcagcttca acattcaatt 360

tcgagt 366

<210> 5305
<211> 359
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5305

ctatgaatct ccggtagtat cctgctaagc ccataanact cttaatctca aaaacaaact 60

tagcactctc ccactcaaga acagcttcta tgttagatgg atctacagct atacccnctt 120

gagatatcac atgtcctagg aaactaactt tctctaacga anactcacac ttggacaact 180

tagcatagaa gtgtcagtcc ttaagagtat gcaacacaat cctcaaatgg tcttcatgct 240

cctctctagt cttagagtat accanaatat catctatgaa tactaccaca naactatcaa 300

ggtaagggtg gaaaactcta ttcatgtagt ccataaacac ttctggagca ttagtcaca 359

<210> 5306
<211> 266
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5306

tggaagctgt cgagaaantc anatggtcct atcttctcan acggatgttt gtattggaca 60

cataatatat cgagacgcta tgatattgaa cgaattggaa cctctcgaga aaaattcaat 120

tggtcataac gtttcacact ttatgttcga ttcgggcgca ttatatatcg tgacgttcga 180

aattgaacaa cggaacctct tgagatantt aaatggtcat aactattcac acgaatgtcc 240

gattcaggga cttaatatat cgagac 266

<210> 5307
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5307

gccactctga ttacttttcc tcctctgnga gcataattct aagggaagcc attcttccta 60

aaacatctat caactgtatg aatgtctttg ccacagtaag tacatgaaaa tcctgaattc 120

gatgaggttg tgcttgctgc attgatcaag ctactgtttc ctatcatatc attgctatta 180

atctatcttt cttgttgaat tgcataagaa aagactttag ttatgccagg taaaggatcc 240

atcatcaata cattggatct gacagtgttg tactgatcat ttaatcccct aaggaattgc 300

ataactcgat cttgcttctt tctttccata acactaacaa gagcatcaca tgtaccattt 360

<210> 5308
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5308

agcttagtaa agctaagcac taacaatact cctctttggc gaattatgtc tagaacatac 60

ttagacactt nctgagcagg tacgagcaga tatgcaagtg ggatcagcaa ctntcattat 120

cagagtaatc aagcacagcg gtatctgtag tggcgacagc aaaattctgc aggttgcaag 180

tcgttgtcag gatgtcaaga catctcatgt gacatcagct ntctgctccc cctgtctcca 240

tgctgctact gctgtgaagc agttcactgc agcatcttct atcagctact atgcttctcc 300

aggatgcaag acatctcacg tgacatcagc tnttngctac cnctggctcc atgctcgtac 360

tgcatcttct atcagctact aagttcagta gcgtacatca gtcatcatca gcagcagtct 420

ccccctcaca atcatataca tacaact 447

<210> 5309
<211> 281
<212> DNA
<213> Glycine max

<400> 5309

actcggatga ctggatgagt cccgtcatat atcgagacgc tcgaaattga atgttgatgc 60

tctgagcaaa ttcagacgac aataactttc tactcggatg tctgattgag tcccgtcaca 120

tatcgagatg ctcgaaactg aatgttgaag ctctcggcca attcaaacga caacaacatt 180

ttactcggat gtctgcttga gtcccagaac atatcgagac gctcgaaaat gaatgtggaa 240

gctctgagcc cattcaggcg acaataactt tttactcgga t 281

<210> 5310
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5310

ctgcagctaa gctgttacat ttctaaaagt ccctgaattt anaattataa tggccccttc 60

ataatnntca aaacttttttc aataggatca ctgaatccaa tctgctggta ggtccctaca 120

nagatccaat tgaaagaata aacaatatgg ggacccaatt atagttntta aactatagga 180

acctatntaa gaatacccta cacataaagg gggctggcag anntaattaa ctactaatat 240

attcttcagc tcccgcctat tatgtgaaca ccttgnncaa cagaatattn ttgttcagtt 300

tatattanaa tcacatatac gtagaagtag aatcaactac taaantattt acctcaacac 360

tattcttgcc aatccatgtt cctataagac aatcttcttt atcctctcca ggatatgtat 420

actgaaagat gaagcaatct ncactattaa aatttgactg atcag 465

<210> 5311
<211> 256
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5311

tcgctggggc agcatctaga gtcctagaag catattatat caccctgtgc aatntatcaa 60

ttntctgagc aaggacagcg cccaatgcat aatttgatgc atcacacata agctcaaaag 120

gggctgttca atcggctgcc tggatgatgg aggtggtagt cagcgctctc ataatgcaat 180

caaaagcctc tttgcatctg tcattaaagt caaactccac ctcctttngc aacatgttgg 240

acagtggaat ggctac 256

<210> 5312
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5312

gctacatcac tggggaagat aacaatatcg attcatccgg agacctcaaa natgaagttg 60

tanatntaag tctcatggcc aacaactatg aaagcgaaga agagaggatg ctctanacac 120

atgatgggag atgcatcaaa gtttactcat atttctccca agaatagtgg acatgtgact 180

tatggtgaca acaacaaagg taaaattctt ggagtcggaa aaataggtat gaatccatct 240

acctccattg aaaatggttt acttggtgat gatcttaagc atagtctgct aagtgttagt 300

caattatgtg ataaaggtnt ctagtggtca ttggactctc ataatgtgat attaaaaata 360

aacatgatna aaaatataaa catta 385

<210> 5313
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5313

ttaaatgttt aaatattttc atatatttat atattaagta gttaagaatt attaataatc 60

agttntttca gggagactta ttaattgata tgtgatcatc gattgagaaa attatatatg 120

tgatggttga tgttagatga attatggtac tttatcagat tatagcaacg gtctttatga 180

tttaataaaa gagcttgtat gcaaatatat ntagtaacat cctctgtgat ttcctataat 240

aatgctgtgt aaattaaaag catacactaa cattgctttg aagcataccc tacactcttc 300

actntcttca atcttatcta cacttctaga taagagaatt atattaaaac agagatcttg 360

ataatataca aattagaaat atatataatg gtctcattta aatcttagat gttaaaaat 419

<210> 5314
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5314

tcacctgcgg catgcaagct tggtcatctt gagctagtag gtcatcatcc ttatttgaag 60

ttggtggngc aacatatttc tttggcctaa taggaactcc aatatttttg cagcttctga 120

tgttatgatt ggtttggcca caccttccac atgtaaagtc aggcaatttc ctctttagcc 180

tatgtcctat gacattgtct tcatctacag atctcattct atttttctta ggccttcctc 240

tttggacctt tttatgtggt ggaacaggtt gtgcatgttg tgtctgggcc caatattgtg 300

gtccttggac tggttcaata aaatggtggt atgtcttgtt ataagcctct attgacagcc 360

actcatgaca catgtcctca ggcttgcctc ctttgtgact tattgntgca atggcatgtc 420

gcatggcatc cctacatcaa agttgtcaaa tcagcacaca tg 462

<210> 5315
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5315

agcttaacaa aaggcatgtg aagngggtgg aattcctata tcaattccct tatgttatca 60

aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120

tttctatgct tgaaacaaaa ttgattggtc ttgaatgttt gaaaagcatg tatgaaaatg 180

atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggtttcttta 240

gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactaaaa 300

atttgcttgt ttgtgaagca catgaaggag gtttaatggg gcattttggg gtccaaaaga 360

ctctagaaac attacaagaa cattttttatt ggcctcatat gaaaaaggat gtgcagaaat 420

attgtgaaca ttgcattgta tgtaaaaag 449

<210> 5316
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5316

agcttatatg cccaacaatt aaatcagcgt gcttatgctt tatagtgtgg gggaaggaat 60

taccaggatc cttgcacaag atgaaaataa ttttctctct ttgaccgttt aaaatgataa 120

ttgctcaaat aatcggttta atcagctctc aaaccgatca attagagaat tgaattgata 180

aagaacataa taaaataaaa ccaaattaat ggcaaaaacg gatttgaact ggagtatttc 240

ttatgctttt tattcataaa cctttgttaa ataacactcg tacaagaaat gtatctgtaa 300

aacggaattt taaataaaat actaaagata aaagtatgaa gaaaaaaact tatangttnt 360

caaagttaat tcaagtacct tcttctaaaa aataaattat taaaataagt ttactttata 420

aacanatagc ttataaacta gtcaaa 446

<210> 5317
<211> 277
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5317

cttaactcgg aggtccgata caagcgcata atatatcgag acgctcgaaa ttaaccaacg 60

gaagctctcg agaaattcaa atggtcataa cttttaactc ggatgtccga ttcaggcgca 120

taatatatcg agacgctcga aatntaacaa cggaagctct cgagaaattc aaatggtcat 180

aacttttac tcggacgtcc gattcaagcg cataatatat cgagacgctc aaaaattaac 240

aacggaagct ctcgagaaat tccaatggtc ataactt 277

<210> 5318
<211> 344
<212> DNA
<213> Glycine max

<400> 5318

agcttctaca ttcaatttcg agcttttcga tatattactt gtactcaatc ggacatccga 60

gtaaaaagtt attgtagttc gaatttgctc agggcttctg tattccattt cgagcgtctc 120

gatatattac gggactcaat cggacatcag agtataaagc tattgatggt tgaattttct 180

cagagctatc gctttccatt tcgagcatct cgatatatta cggtactcat tcagacgtcc 240

cagtgacaag ttatgtgagt ttaaattgcc cagggcttcg gtattccatt gcgagcgttt 300

cgacgtatta cgggactcaa tctgacatcc gagtaaaaag atat 344

<210> 5319
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5319

tctgttagtg ttatgcctct gtctatttnt aattctctat cttaggtccc ttgcagtcaa 60

ctgatgtggt aattcattta gctaatagaa gtgttgccta ccctgttggt ttcatagaag 120

atgtcttagt tagagttggt gaactgattt tccctgttga tttttatatt ttgaatatgg 180

aggatggatt ttctcaagga tcagttccca tcattctagg cagacccttt atgaaaactg 240

ctagaactaa gatagatgtt tatgcaggca cactatccat ggagtttggt gatataattg 300

ttcattttaa tattctggat gctatgaaat acccatatga agatccttct gtatttcgtg 360

ctgaaataat tgaccatgtc gttgatgaat acatgactga tctttactc 409

<210> 5320
<211> 398
<212> DNA
<213> Glycine max

<400> 5320

ctcagcttgt gaagcaaagg ccagctatgg tcttcaaggt ggattttgaa aattctctat 60

gactcagtct catgggcttt tctggattat atgctgcaaa gaatgagctt ttgccccaaa 120

tggagacaat ggatttctgc ctgtctcaat tcagcaacca tttcaattct tgtgaatggc 180

agtcctacaa aggagattgc tcctactata ggcttgatgc aaggggaccc tttagctccc 240

ttactcttca atatagttgg agaaggcatc acaggattga tgagggaagc agttcagaag 300

aatgtatata gaagttacat ggttggaaag aaaaaggaac ccactaatat tttgcagtat 360

gcagatgaca cagtatttgt gggaggctgc ttgggaga 398

<210> 5321
<211> 306
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5321

agctntgagc aaattcaaac gacaataact tttgactctg atgtccgatt gtgtcccgta 60

gtatatcgag atgctcgtaa ttgaaaacag aagctctaag caaattcaaa cgacaataac 120

ttttgactcg ggtgtccgat tgtgtccggc gtatatcgag atgctcgaaa ttgaaaactg 180

aagctctgaa aaaaatcaaa tgacgataac tttttactcg gatgtccgat tgaatcccgt 240

aatatatcga gacactcgta attgaaaata gaagctttga gcaaattcaa acgaccataa 300

cttttg 306

<210> 5322
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5322

ctcaagctta tgctgcatan attacaatag acctcctcaa ccttagcttc taaatcaacc 60

acttcagaac aattatgacc tctctagtaa cagatacaat cccggatgga ggaatcaccc 120

taatctcaga tggtctaacc ctcaacaaca acaacaacaa caacctgctc cttccttcca 180

aaatgctgct ggtccaaaca ggtcatacgt tcctcctcca atgcaacaac atcaacaaca 240

atagcaacaa tagccacaga gacaacaatc aactgaggcc ccttctcaac cttccttaga 300

gcagttagtg aggcaaatgg caatacaaaa tatgcagttt caacaagaga caagagcctt 360

cattcagagt ttgacaaatc agatggggca gatgaccact cagttgaacc atgctcaatc 420

ccaaaactct aacaagct 438

<210> 5323
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5323

cagcttgagc cnaaacccaa ctcgcgctaa atcttgatct gttttagaat ctccatcctc 60

gccctcagaa gaaaacaaaa ggaaaaaaga atgttcccga ccaaagatcg gaagagaact 120

aatagaaaat atacagaaag gtcttctgac caggcaacat ctgaacagaa cataactgtc 180

accagcaaac aagaaaagaa aggaaaccac aatttgaagt ggtcctcttc ctttgattac 240

caaccaaaat ctcatgcact ggcaactttc tcgttccgca ctaaacaaaa acagagaggg 300

aaaggccaaa acactcagag ccaaattttc caccaaaaac actattcacc aaaagtccta 360

ttgatccgtg atcacatgtg taatctttga tttgatagga aatggcttgc aattcaagtc 420

atgacatatc tatggtttgg aattaagatg aaacac 456

<210> 5324
<211> 326
<212> DNA
<213> Glycine max

<400> 5324

tatcacggac ctatgaaact aagcttaaca ttcaatttcg agcgtctcga tatattacga 60

gtcttatatc aaacatccga gaaaaaagtt attgtcgttt gaatttgctc agaggttcaa 120

cattcaattt cgagcgtctc gatatattac aggactcaat cagacatccg agtaaaaagg 180

tattgtcgtt tgaattggct cagagcttca acattcaact tcgagcgtct cgatatatta 240

cgagactcaa tcagacatcc gagtaaaaag atattgtcgc ttgaattggc tcagagcttc 300

aacattcaat ttagagcgtc ttgata 326

<210> 5325
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5325

agcttagagc caattcaaac gacaataact tcttactcgg atgtctgatt gagtcccgtc 60

atatatcgag acgctcgaaa tttaatgctg aagctcttag ccaattcaaa cgacaataac 120

tttttactcg aatgtctgat tgagtcctgt aatataacga gttgctcgaa attgaatgtt 180

gaagctctga gccaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240

tcatatattg agacgctcga aattgaaagt tgaatctctg agccaattca aacgacaata 300

actttttact cagatgtctg actgagtccc gtnatataac gagacgctcg aaattgaatg 360

ttgaagctct gagctcattc aaacga 386

<210> 5326
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5326

taatacccaa aatcacatct acacgaccaa ggtctttcat atcaaatttt ctagacaaga 60

aagacttcac atcatttaca tattactacc aaatatcaat atgtcatcca gatacaaaca 120

taaaatgaca catccactat catcaaattg tttcatatac acacattatc actatcatta 180

atttgaaaac catacgaaag aataactnga tcaaactttt gtgtcattgc tttggagctt 240

gtttcaaacc atatagagat ttaacaattt atttttcaag gaaaaacatt ttcaaagaaa 300

gtgacatctc tagattccat aatagtacca ttagaaattt ttgacacttc tgaattaaca 360

actaagaatc tataagaagt atcatgttaa gaatatccaa c 401

<210> 5327
<211> 395
<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 5327

cggatggaga agaagagagt gcgaggaaaa tagggcttgc tttctaatat ttntaaatgt 60

agcttcaaca tcagttttca atacaaaact gatgttaact atgtgatgta aacgttaaca 120

tcggctttat gaaaaaaatc aatgttaatg aagtcatgtt aacatcggtt tttgaaaaac 180

cgatgttaat gtaagttcgt taacatcggt tttctgcaaa atcgatgtca actaatgcac 240

attatttaca attatgccac cgcatttatg ttaacatcgg ttttaccaaa aaccgatgtt 300

aacctgatga tgttaaatct atagtctcta gtagtgcctt tgaagcagat gtaaaagaac 360

gtcaacgaaa gattacgatt tgcccttcat tgatt 395

<210> 5328
<211> 441
<212> DNA
<213> Glycine max

<400> 5328

cgcttgatgt ttgtgttgaa tgcattaaag gtaaatatac caatagaaag aaattgggtg 60

catatagagc tacaaacgtc ttggaattga tacatacgga catttgtggg ccatttcata 120

caccttcatg gaatggtcaa caatatttta catcactcat agacgattac tccagatatg 180

catatatgct tcttatacat gaaaagtcac aatctctaga tgtgttcaaa acatttaaag 240

ttgaagttga aaatcaactc aataaaagaa tcatgagtgt cagatctgac catagtgatg 300

aattatatgg cagatatgac agttcaggtg aacatcgtcc gaggccgttt gccagctact 360

tagaggaata tggaatcgtc ccacaataca ccatgtcggg gtcacttgca tgaacagtgt 420

gactgaaaga cgaaacataa c 441

<210> 5329
<211> 308
<212> DNA
<213> Glycine max

<400> 5329

tagcatcact cttaattgta tcattgtgag ctttatgtgc ttagggagga aaaacagaag 60

caaccaaata attcacaata ttggaaaact agggagtggg gaaggaatca gaaatactat 120

acagaatgta caaatggtca tccagaaaat catcccgaat aggtgagtcc ttagacacac 180

gctcaatcct actcaagtgg tcaaccacaa ggttctgtgc accgctccga tcacggatct 240

ccaaatcaaa ctcttggagc caaagcatcc acctaatcaa tctaggcttt gattcagcct 300

tcttcaac 308

<210> 5330
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5330

agctntnnta ttttagcaga tgaagatgaa tctgtggcca cctcatggac tcctctaagg 60

acaatagcat aatttcttgc actgaattgt tgggagttgg aagccatctt ctcaatcaaa 120

ttcctagcct caacaggagt catatcacca agggctccac cactggcagc atcaatcata 180

ctcctctcca tgttgctaag tccttcatag aaatactata gaaggagttg ctcagaaatc 240

tggtggtgag gatagcttgc acacaatttc ttgaaacttt cctagtactc atacaagctc 300

tctccactaa gttacctgat gcctgaaatg tcttttctga tggcagtggt cctagatgca 360

gggaagaatt tctccaagaa cactctctta aggtcatnct agctggagat gga 413

<210> 5331
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5331

tccattggtg tctngaagtc taaagccgat gaaggacatc tgttaatcac ataggctatt 60

gtgtttgcag cttctcccca aaaggtcttt ggcagtccag cacttatcgg catgcacctc 120

actctttcca aaatggtcat attcattctt tctactaatc cattctgcta tggagtgtaa 180

cggactattg agcgccgttt gatacctgat gctccgtcaa actaaacgaa ttgctctgaa 240

acaaactcca tgccattttt actccttaaa acttttgtg ttgtaccaag ctgatttcca 300

ataaaagtat gtcactctct gaatatttta aaagcttcta atgtgttatt taaaacatac 360

agccat 366

<210> 5332
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5332

agcttgttgt gtcttatcca atgantttct ttgatagata gtaggcaaat tacaatttga 60

tttgatagct cactaagatt gatcttatag agattgcctt tcctcttagt agaaaagagc 120

ttagtcccat ttttatttttg gacaatacac ccttctttgt taaaggaaac atcatttcca 180

ttgccacata attggcttat gctaagcaaa ttatgtttga gcccttcaac aacaaaaaaa 240

aaaaaaatct ataagaggat ggggatgaat acttatctta tgtactcctg ttatcttcac 300

tttatgattc ttgtcaaaaa agactattcc accatgcata ggggttaggc attggaagat 360

acacctttct cctatcttgt gtcatgagca ttcgttgtcc aaataccatg aatgatgtat 420

ctttcttttg gttaaagata tatgcaacaa gaat 454

<210> 5333
<211> 270
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5333

ttggagtntc caagtgccaa ttcgactgct tctttagtcc agtcttcttc tagcttcaat 60

ccatcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120

gctttccagg ctctgctatc cagtgatttg aggaaggcca ccatccttgc tttccagtat 180

tcatagttgg ttccatccag gattggtggt ctgttcactg gtcctacttt tttctccatg 240

ttcatcagaa tttatcttcc tagatctcac 270

<210> 5334
<211> 311
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5334

tcttagatct gtcagatcca agcccagatc tatgtctaga tttaaaaata gtattagagg 60

aagttgctca acttccccaa cctccaacac taagtttcct tcgtcggtgg agacgtcaag 120

gagttcatgt tgattcattc ctctattgac aacaagattc aggccatttg caaagggttg 180

actgagttgt ggaaacaagg aaaaatctag ttacgtgcat ggaaatntga acccaaaacc 240

aaagatttga gaataattcg tttctttgat ttgattttgg ttgaatttct gtcatggtgt 300

gaataatgca t 311

<210> 5335
<211> 382
<212> DNA
<213> Glycine max

<400> 5335

gtggaaaatt ttggcacgga atcatcagag gtggctaagt cttaagatgg tcgcgttgtt 60

ggagtctcca aaatgatatc ctcatctttt tcacggtcag ctgagagagc tccttccttt 120

aacaacgaga cacaaatagt gttatgcctt gtggacgggt gccactctga tctcagtaac 180

tgcaaagact atcatagacg ccataaggtc cgtgaagtcc attccaagac tacacaggtc 240

acaattggag gtcagaaaca aaggttctgc cagcagtgta gcaagtacat gtttcatatg 300

aaatttctca tcatttgctc tcttaattaa tgttgttact atttttttaa tttggataat 360

gtataatttg atcacccgga gt 382

<210> 5336
<211> 409
<212> DNA
<213> Glycine max

<400> 5336

agcttcacaa aagtttatgt ggcttgaaac aatcaccgtg tcagtggtac aagaagttta 60

atgagtttat gagcaactca ggattcaaca gatgtgacat ggaccattgc tgctatgtta 120

agaaatatac taatagttat gttatccttg tcgtgtatgt tgatgacatg ttgattgcag 180

gatctagtat ggcataaatt aacaagttga agcagcagtt ggcagaaaac tttgaaatga 240

aggatcttgg tccagctaaa caaatccttg gtatgagaat tcttagaaac agatcagaag 300

gaattttgaa gctgtctcag gagaaatata tacacaagtt gcttgacagg ttttaccttg 360

gagattctaa gaccaagaat acccctttag gatctcattt gaagttttt 409

<210> 5337
<211> 441
<212> DNA
<213> Glycine max

<400> 5337

agcacatgct aacgacaata acatttcact cggaagttcg attgagtccc gtaatatatc 60

gagacgctcg aaatttaaaa ccgaagctcg tagaaaattc taacgaggat aacattacac 120

tcggaattcc gattgagtcc cgtaatatat cgagacgctc taaatttaaa accgaagctc 180

gtagcaaatt ctgacgacaa taacttttca ctcggaaggc cgattgagtc ccgtaatata 240

tcgcgacgct cgaaattgta agccgaagct cgcagcaaat gctaacgaca ataacatttc 300

tgtcggaagt gcgattgagt cccgtaatat atcgagacgc tcgaatatta aaaccgaagc 360

tctgtgcaga tgctaacgac aataacattg cactcggaag ttcggttgag ttccgtgata 420

tatcgagacg ctcgaaattt a 441

<210> 5338
<211> 382
<212> DNA
<213> Glycine max

<400> 5338

tgacaggttc aggtgtaggt gctgctactg gtggaggcac ttgaatttgg ttgccggacc 60

tcaaggtgat ggcactcata tttttcggat tctgcacagt ttgtgaaggc aatttgtcag 120

aattttggga ctgagcttgg ttcaactgag tagccatatg ccccatctga tttgtcagaa 180

tctgaataga ggctcttgtc tcttgctgaa attgcatatt ctggatggtc atttgcctca 240

ctaaatcttc taaggaaggt tgaggagggg cctcaattgg ttgttgcctt tgttgttgtt 300

gttgttgctg ctgctgctgc tgcattggag gaggaacata tggcttgctt ggaccaacaa 360

cattctggaa aggagggaca tg 382

<210> 5339
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5339

agctntcact cgcatgtccg attcaggcgc atatcgtatc gagacgctag aaatctaaca 60

aaggaagctc tcgagaaatt caaatggtca taacttttca ctcgcatgtc cgattcaggc 120

gcataacata tcgagacgct cgaaattgaa caacgggttt tttcgagaaa ttcaaatggt 180

cataactttt cactcgcatg tccaattcag gacatcgtgt atcgagacgc tagaaattgg 240

acaatggaag ctcttgagaa attcaaatgg tcataacttt tcactcggat ggccgattca 300

agcgtataca atattgagac gctcgaaatt gaacaacgag agctctcgag aaatctaaat 360

gggcataact tttaactcgg atttccgatt caggtgcata acatatcgag acgctacaaa 420

ttgaacaacg gatgc 435

<210> 5340
<211> 294
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5340

tagctccaaa ctctntgggt ggaggatgca tgaacagcgc taggcaatga cattcatggg 60

gctccgaaaa aagtggagaa tggaggattg gactataggg tccacactag gcaatcatga 120

agcataactc caaactcttt gggtggatga tgcatgaaca acgctaggca atgacattca 180

tggggctccg aaaaaaagtg gttggcagga ccgaacggtc caccgggttt ttccacctaa 240

aaggaaaaca tgctttttgc aaagaaaaat aaatcattca cgagagcacc atat 294

<210> 5341
<211> 288
<212> DNA
<213> Glycine max

<400> 5341

agcttcatgg atatttatgt gatgacatgg ttcttggaaa gacacttcaa gcatcagcaa 60

ttgtggcctc tgatatagct gagcatcgaa cttcaattgg gaatgaggat cttctgccat 120

ctttaattat ttgcccatca actctagttg tgcactgagc ctttgagata gagaagtata 180

ttgatgtttc tgttatctct agtcttcaat atgttggctc tgctcaagag cgaatgcttc 240

ttcgggatca tttttgcaag cataatgtca tcataacatc atatgatg 288

<210> 5342
<211> 421
<212> DNA
<213> Glycine max

<400> 5342

agcttaataa gtacatctat ggattgtaac atgctttctt ccaatggtat ctaagatttc 60

atgaggtcat ttcttcattt agctttgaag agaatgtcat ggatcactgt atataccaga 120

aggtcagtgg gagtaagatt tgtttccttg tattatacgt agatgatatt ctgctcgcaa 180

ctaatgataa tggtatgcta tatgaggtga aacaatttct ctcaaagaac tttgatatga 240

aggatatggg agaggcatct tatgtcatag gcataaagat ccatagagaa agatctcgag 300

gcattttagg cttgtctcaa gaaacctata tcaacaaagt tttagagaga tctaatatga 360

aagaatgttc accaagtgta gctcccattg tgaagggtga caaacttgtc ttgagtcaat 420

g 421

<210> 5343
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5343

agctnttatc catggcctcc taggtggtga gtcttttcta tactcatctt ctccttgaag 60

gggcgtctcc tctctctctt ccttctccat tctgctgcca ttcatcttcc aagaagcaaa 120

ggattccatt gatgaagaag atcctaggcc tacaagctcc aatggagcta acatcaaaat 180

atatcacatc ccattagcta aaaacacagt ttttcttgaa aaccagcatg cacaaggata 240

gacatacatc cccataattg gttcactgac cccaactatg gtatcaaaag ctgtaaacaa 300

acaataaact cccctcactt atctatatct ctctgttagt tccatgcggt gttgttctaa 360

gatctcttan gttcacgtcc gttcgtccaa acgtagagct ctatatacca aatcanagat 420

aattcagtat 430

<210> 5344
<211> 346

<212> DNA
<213> Glycine max

<400> 5344

cgccagcttc tgttttcaat acgagcgtct ccatatatta ctttcctcaa tccgacatcg 60

gagtaaaaag ttattgtcgt tagaatttgc tcagagcttc tgttctgaat tttgagagtc 120

tcgatatact acggaacaca atcggacatc tcagtaaaaa gttattgtcg tttgaatttg 180

ctcagagctt ctgttcttaa ttacgagagt ctcgatatat tacgggattc attcggacat 240

ccaagtaaaa agttattgcc gtttgaattt gctcaaagca ttcgttgtca attacgagcg 300

tctagatata ttacgggatt cattcggaca tccgagtaaa aagtta 346

<210> 5345
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5345

tccattntca atttcgacca tctcgatata ttaccggact catccggaca tccatgtata 60

aagttattgt caattcaatt tactcaaggc ttcggatctt aattttgagc gtctcgatat 120

attacaggac tcattcagac atccgagtaa aaagttattg tcgtttgaat ttgatacaag 180

cttccgtttt caatctggag catctatcga taaattatga cactctgtcg ggcatccgaa 240

taaaaagata ttgtcgcttg aattctctga gagtttccgt tttcaatttg gagcgtctct 300

ctatattacg ggact 315

<210> 5346
<211> 428
<212> DNA
<213> Glycine max

<400> 5346

agcggatgct caaaacatat gactggagat gtatcaaatt ttacacatat ctctccaaag 60

aaaagcgggc acgtaacata tggtgacaac aacaaaggta gaatccttgg agttggtaaa 120

ataggtacaa attcttcaaa ctccattgaa aatgttctac ttgttgaagg ccttaagcat 180

agcctgctta gcgttagtca attatgcgac aaaggctatc tagtatcatt tgattctcaa 240

aattgtctta tagaacataa gcatgacatt aatataaagc atgtaggaca tagagtcaat 300

aatgtttaca tgatagactt aagcataaaa ctagaaaaca atcattgctt tcttagcaaa 360

gatgatgatc catggttatg gcataaaaga attgctcaca taaacatgga tcacttaaat 420

aaattaat 428

<210> 5347
<211> 275
<212> DNA
<213> Glycine max

<400> 5347

agcttacaaa atttatatgg cttgaaacaa gcaccgaggc agttgtacaa gaagtttaat 60

gagtttatga gcaactcagg attcaacaga tgtgacatgg gccattgctg ctatgttaag 120

aaatatacta atagttatgt tatccttgtc gtgtatgttg atgacatgtt gattgcagga 180

tctagtatgg cagaaattaa taggttgaag caacagttgg cagaaaactt tgaaatgaag 240

gatcttggtc caactaaaca aatccttggt atgag 275

<210> 5348
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5348

agcttatcat gatcatcata attattggct atatgaaggt agacaaaaga tgcaacagtg 60

gaatctgtaa ctgctttact tttcagcatt ttcccataac aatgatcaga attctgactg 120

aaattattaa actgagcatt aagaggaaag tcactaggaa gaagccagga agaatctgga 180

aatggctcac aaaagagatc aaccatatcc gctccagggt caaccagtag aacacggtta 240

gtgaggagag catagagaaa agcagaagct agggtcaaaa tcctattccc taagccacta 300

aacgaaatcc atacaacata tttacactct gnaggactca gtaaatgacc accagaccta 360

agttgttcaa ctgttttgtt ataggaatca gcgtaaggtc cacattgttt gtgctgagct 420

tcatattttc ttaacctaga aa 442

<210> 5349
<211> 448

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5349

agcttcctcg tggcttcttt gagaagctnt ctcaagaggc ttctttgaga agctagatcc 60

ttatctatcc acacccctct tttagctgaa ttaacctcct taaaaataat tacggatgaa 120

aataacgcaa caaataatca aacatcaaac ataattacta ataatatata gatatatata 180

tatcagggtt ttacaactct cccacccttt tagaaatttc gtactcaaaa tttaccttac 240

tcaaacaagg atgggtgagc ttctcgcatc tgactttcta attcccacgt ggcatcttct 300

cctgatgcac ctccccagat caccttgacc aacgaaatct ctttccctct taagtgtttt 360

gttcgcctat ccttgatcct canaggcaat gtttcatatg tcaaattctc cttcacttgt 420

acatcatcca attcaatcac atgggatg 448

<210> 5350
<211> 619
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5350

tctntgagaa aaagtcctat ggaagcgaga gcttagctac acacacccct ctcataacta 60

agctcacctc cttgagaagc ttgcttcgga agattcctaa agaagctaga gcttaactac 120

acacaccttt ctaatagcta agctcacctc cttgagatga gaaactagag cttagctaca 180

caccccctat aatagctaag ctcaccccca tgacaaaata catgaaaaaa caaaaaaaag 240

tccctactac aaagactact caaaatgcct cgaaatacaa ggctaaaacc ctatactact 300

agaatggcca aaatacaagg cctaaacgaa ggaaaaacct attctaatat ttacaaagat 360

aagtgggctc atacttagcc cctgggctcg aaatctaccc taaggctcat gagaatccta 420

gggccttccc ttggatctct agcccaatct acttggagtc ttttatccaa tgcccttgcg 480

gggtaggatt gcatcacaaa gggaaacaac atgttttaat tctgttatnt tctaattaaa 540

aattgcttgc tgtttaaatt acaaaaacaa acccccccccc cccaatttgg tactatttta 600

taactatcta ttatgaacg 619

<210> 5351
<211> 482
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5351

tttgtgttga tttaatctca acagttccat ttcgtgttcc tgtaactttc caattaatgt 60

agcaagagac atgttagtta aatatcgcaa ctcagtaatg gctgttacct taagttgtca 120

ttctctgctt aaacatctca atactttatt tatgagatct tcatttggaa aaattttccc 180

taaagatgca agatgattta ttatatgtgt aaacctttt tgcatgtctt gtatactttc 240

atttgaattc attctaaata attcatactc atgagttaat gtatttatcc tagatctttt 300

cacatctgtt gtgccctcat gtgttacttg tagggtattc cacatttctt ttgcactttt 360

ancaattgat accctaaagt actcatccat tcttaaggca gatgtaatta tatttttggc 420

ttttaagttg tattgcacta atctcttttc ttcgtcactc cattcttccc tangcttttc 480

ta 482

<210> 5352
<211> 528
<212> DNA
<213> Glycine max

<400> 5352

agcttcaagc cttgatcaaa ctgaagatcc ttggttcctt acaatatttt ctgggcctgg 60

aagttgcaaa gtccagcaag ggcattgttt tgactcagag aaaatatgcc ctttctcttt 120

tagaggatac tggttttctt ggctgcaaac catcctctct tccaatggat ccaaatttaa 180

agctcgacat gctcagtggt gatttgctgc ccgatccctc aatgtacagg tgcttacttg 240

gtcgtctcat gtacctcact atttcaatgc cggatattac attttctgtt aacaagctaa 300

gccaatacat gcagcatcca agaatacctc atctaaatgc tgtgcatcat ctcctacaat 360

atatcaaggg cactccgggt cagggtcttc attttccagc cagtaactcc ttcaacttat 420

ctgcatatgc acatgctgat tgaggaggat gttttgacac acgcaggtcg acatctggtt 480

catgtgtgtt tctacgagat gctttattat caagggacat caaaaaag 528

<210> 5353

<211> 567
<212> DNA
<213> Glycine max

<400> 5353

cttgatcttt cctcagttct ttaacaagct ttgtacaata tacttggcct tcatttaact 60

gtctttgggc ttggcggcca cgctcaacaa agtactttcg acacctactg tacgttgatt 120

tcaccaatgc cgttatggga atgttgcgac aatcctttaa aaccttattg atacattctg 180

agaggttcgt tgtcatgtgg ccatatcgac gtccttctct atcgtaagcc atcgtccatt 240

tttcttttga gatgcgatca atccatgttg ctatggctgg actcacttca cgaaattttt 300

ctaaattttt atcaaaaatg tgcttgcaag gagtataggc tgcataaaat tagttatgaa 360

taacaattta cagtataaat gaaagtaaaa taaacgtgac catcaaatat gaaattttac 420

ccaatttctt caacatttct ttttgtttgg cattattgaa ttttcgattg aagttgcttg 480

ctatgtgtcg cacgcagtaa acatgataac cgtggggagg ttgccagcca agtgctttgt 540

tagcgacagc ggactttata ctcgcgt 567

<210> 5354
<211> 373
<212> DNA
<213> Glycine max

<400> 5354

agcttgaagg tgtgtagccc accatctttt catagtagaa aactggtaat gtgtctacta 60

tcattgttat catttttttc tccgtcactg aggtgccact tgagctgcca ggtctctcca 120

cctttgggcg cattctttga aagatctgtg ccccttttttg cacatgttct gtagttgcat 180

cctatccgga accatatcaa aattttactg atattgtcta acgaaggcaa ccattacgtc 240

cttccaagaa tggactcggg aaggttccaa gttagcgtac caggtaacag ctaccccagt 300

aagactttct tggaaggaat gtatcaccaa ttcctcatcg tttgcgtatg cccccatctt 360

ccaacaatac atc 373

<210> 5355
<211> 587
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5355

tttatatata tatatatata acaatgatct tactgttaga aattattact ggttgttgat 60

gtcaataaat gatagcatca taaaatatcg tcatcaaaag tgtcatataa acaatatttg 120

attattgtaa aattaaattt tcatttttct acgtacaaaa aaaattcact tcgctttctc 180

ccattaagtt tccatacttt catccattcc atagaaattt tctctatgtt ctcttaagct 240

ttcacaagta aaattagatt tcttccctct ctcattcatt aactctaagc tctctcattc 300

tttttcttga gacatgataa taattataat aaattacact attttatgaa attatataaa 360

taccttttac tttttttcta cccctacact aacatctctt aattattgaa aaatatatac 420

cgacatgaca tctttntatt cattacatta actctcctta attatttgaa aaattctaca 480

ccaaactccc caaaggagag gttattataa atattaaaac aacatgaagt atttgtgtaa 540

cttcacaaaa atttatagaa tattgtgtta atttactctg ataatat 587

<210> 5356
<211> 558
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5356

agcttcccaa gtttttaagt tcttcctcaa aactgtccta agcaaagttc ccaaagtcct 60

attaacaact tccgtttgcc catcggtttg tgggtgacaa gtggttgaaa ataacaattt 120

agtgcccaac ttgctccaca aagtcctcca aaaatggctt aaaaacttag agtccctatc 180

actaacaatg ctccttggca gaccatggag tctcacaatc tccttgaaaa acaaatcagc 240

cacatgggaa gcatcatcaa ctttttttaca tggaataaaa tgagccattt tagaaaacct 300

attaacaacc acaaaaatgg aatctctacc attgcttgtt tttggcagcc ccaaaacaaa 360

atccatggat aaatcaatcc aaggatactc cggaattggc aatggagtat acaatccatg 420

aggctttacc ttagactntt gccttttaca tacaatgcaa tgttcacaaa atttctgcac 480

atccttttttt atatgaggcg ccaataaaaa tgttcttgta atgtttctaa agtcttttgg 540

accccaaaat gccccatt 558

<210> 5357

<211> 538
<212> DNA
<213> Glycine max

<400> 5357

agctcgtaac aaatcttcta cacttggagt gatcacatga agtcctcttg aacccttacc 60

acccactctg tcatcatgcc gagactcagg aagcccaacg ggtttagcct tctctaagta 120

ttctgaacaa aattcaatgg cttcttctac aatgtacctc tcaacaatag atgcttctgg 180

acgatatata ttctctgtat acccttttaa gatcttcatg tatcactcaa ccgggtacat 240

ccaccataga taaacaggac cacaacattt gatttctctg accagatgca caatcaagtg 300

aatcatgatg tcaaagaaag caggggaaa atacatctcc aactagcaca gtataattgc 360

ggcctcattt tccaactcat cagacttgac tggatcaatg actttgctac atatagcatg 420

gaagaaaaag cacaggcgag ttatcgctaa actgaccttg tttggcaaga tgtcttgttt 480

agccacgact aacaattatt ccatgagcac gtgaaaatcg tgagaccttt accctacc 538

<210> 5358
<211> 499
<212> DNA
<213> Glycine max

<400> 5358

tggtacttct actgaagctg agtttctacc ctcctcctgt cctgacatag aatctctagt 60

gcagctgaag gatgctatag ggttcttgat ccttcagatt cagtctttgt ttcttgtttg 120

ttctttttct tggatttatc tctcattaaa aaaatatcaa tgaaaaatat gatggattaa 180

ctggttttcc tttttctggt atcggagaaa agataatgat tttcattggt ctcattattc 240

agtatttgga tttgtacatt ttttattgcg tattatctat tcattcatta tattaggaaa 300

gtttaggttt ttttaaataa caatatttga tgcaaaaata aaataaaatg attagaacta 360

aaggtattaa ttaataatta ttatttcatt tatcatttat aattatttgt atgtacatgt 420

attataatgg tttaatattt attaatatgt aattttcgct aataccatat acaatacacg 480

tcttctataa taataaaaa 499

<210> 5359
<211> 502
<212> DNA

<213> Glycine max

<400> 5359

tctagatgag ttatgtctgc gaatcggaca tcctgtgaaa agttatgacc atttgaattt 60

ctcgagtgct tccgttgttt aatttcaagc gtctcgatat tttatgtcct caaatcagac 120

atcggagcga aatgttatga ccattcgaat ttgtcgagag cttccgttgt tcaatttcga 180

gcgtctagat gagttatgtc accgaatcag acatctgagt gaaatgttat gaccattcga 240

atttgtcgag agcttccgtt gttcaatttc gagcgtctag atgagttatg tcaccgaatc 300

ggacatccgt gtaaaaagtt atgaccattc ggctttgtcg agagcttccg ttgttcaatt 360

tcgagcgtct cgatatatta tgtccccgaa tcggacatcc gtgtgaaaag ttatgaccat 420

tggactttgt cgagagcttc cggtgttcaa ttttgagccg tctagatgag ttatgtctgc 480

gaatcggaca tcctgtgaaa ag 502

<210> 5360
<211> 567
<212> DNA
<213> Glycine max

<400> 5360

tgttgacaaa gctgaaaagt gtgtctttgt tggtgtaagt gaaacatcaa aagcatataa 60

gttatttaat ccactaacaa agaagattgt gaccagcagg gatgttattt ttgatgaaga 120

caacacatgg gactggaatg agcagcaacc caattcaatt attgttgaca atgaagatgt 180

aaaagaacta cagctactcg taaacattgt cttaacatct ccaaatgaag ctcaaatagc 240

tcctgagaca gagatttcaa caccaacaaa tgctggaaca acagatgcaa ctagacatgg 300

caatggggcg ggtcgggtac gggtattgtc tccccaatcc cttaccccga cgcctcgaca 360

tatccccata cccgtacccg atacccgacg ggtttgagtt tattgtccca tccccgtacc 420

cgtcgggtat cgggtattcc caaccccgtt ccacacacca tttagaaaaa tatttttttt 480

ttgtaaaaaa tattaaaaat ttgatttaaa aaaaaataaa ttgattgtaa acatttttt 540

ttactactta tatataataa tttatta 567

<210> 5361
<211> 502
<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 5361

agcttcgacc tatgtgcatg aattgtgtgc catcacaact gccgttaaga agtggagaca 60

ataccttctt ggccatcaat tcatgatctt gactgatcac agaagtctta aggagctcat 120

gactcagatt gttcaaactc cagagcagca aatgtatttt gccaggctta tggggtatga 180

ctactccatt caatatcggt ccgggagcac taatttggta gctgatgcct tatcgcgctt 240

gaaggaggga tcagaaggaa ccatgttatt actatctgta ccttgcctga catttttaga 300

tgaattgaag aagcaattaa aacaagaacc agcctttatc gaattcagga agaatatatt 360

ggcccaaccc acagccttcc ctgaatattc tattactcgt ggattgattn tgtaggggaa 420

tcgtatctgg ttactagagg atatcccctt cattcagact ctgttaatgg agtatcattc 480

tactccaaca gggggtcaca tg 502

<210> 5362
<211> 592
<212> DNA
<213> Glycine max

<400> 5362

agcttcatgg tgaatcaaag gtgattcaaa ggtgttttga tgataacaaa agatgatgac 60

aaaggtgatg acaaaaagct caaagatcaa tcaaagaaca actcatgtga tcaagttaga 120

ataaagaaca attcacgagt tcaagataga atcaagagaa ggcttaatca agctaagtat 180

gaaaagtttt tctcaaaaat tgagtagcac atgatttttc tcaaaacatg tttaccaaag 240

agtttttact ctctggtaat cgattaccag attgttgtaa tcgattacca gaagcaaaat 300

tgttttgaaa aagttttcaa atcgaattta caacgctcca gttaatttca gaaagctgta 360

atcgattaca atgttttggt aatcgattac cagtgccttt gaacgttgaa attcatattc 420

aaaagtgaag agtcacatct tttcacataa aagctttggg taatctatta cactgatttg 480

gtaatcgatt accagtgagt gtttctgaat aaaatcaaaa gatgtaactc ttcaaatagt 540

ttttgacttt ttcaaattgt ttttaggttt tctaaatgca taactttcta at 592

<210> 5363
<211> 562

<212> DNA
<213> Glycine max

<400> 5363

agcttgttta actgtcctgc tgcaaagcaa tgttataccc agctggaaag atgtatctcc 60

tccgatgagg aaacaatcta tgctgcttct gcggcagaca atctccagta gtaccatccc 120

aaaactgtaa atgtcaaggt ttactgatac tggtgcatcc ttctgccatt caggtgtcaa 180

gtacttgctt gtcccatcat cctcttttct cattcttgaa tggtcagact ttagcagcct 240

tgccaatcca aaatcagaga tctttgcagt ccacgctcca tccataagta tattccgagg 300

atttatgttg caatggataa tacggacctc acactcttca tgtagataca gcactcctct 360

ggcaatgtct aatgcaattt tcagtgtgtc tctccgagat atgtgtttct catcgttgaa 420

gagaatactt gcaagagacc cgttgctgat gtattcgtaa acaggaagct tcccagatcc 480

attgatgcaa aaaccaatga gcttaaccat attcctatga tgtgttcgag caatgttagt 540

aatatcattc aagaaaacac tc 562

<210> 5364
<211> 661
<212> DNA
<213> Glycine max

<400> 5364

agcttaatag taaaattaaa aaaacatacg aaaataaaaa atttacaaaa gccaaaaaca 60

aatatttttt ttctaatttt tactaataaa aaaattagaa agacttgtaa tcattggttg 120

ccacaccata ttaatcaatt atccatttaa tgtatgatca acataataaa aatagaagag 180

ttgttcaaag aatgtttgta tcagaaaatt tgaatataca tccaaattaa gatgttttaa 240

atcaagatga aattgagata aaatatatcc caaccaagta taattaaaaa tgatgttata 300

atatttttta atcatatgat atcaatatac cattttaatt acatatgtta taacataaat 360

tggacacatg aaattatgat tcatttttat tttaaaagat ataataataa taataataat 420

aataataata ataataataa taataataat aataataata ataatataat tatatgaact 480

gaacacacat acttaacata aattgagcat ataacaacgt tagttattca tttgtccgat 540

agatattcat aagataaatt tatgggatgg ttaatcatta atttttttat gtttaaagac 600

tcttaaatat ttatatttaa cattaattta tctaccaaat taataaatga tgttaaatgt 660

t 661

<210> 5365
<211> 549
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5365

tcatggtgaa tcaaaggtga ttcaaagatg ttttgatgat ttcaatgatg acaacaaaag 60

atgatgacaa aggtgatgaa caaaaagctc aaagatcaaa gaacaactca agtgaatcaa 120

agaacatctt aagagaatca agaacaagtc aagagttcaa gaatcaagaa gaattcaaga 180

ctcaagaaga aagcctagaa tcaagaatca agattcaaga tctcaagaat caagatcaag 240

attcaagaat gaagaaaaga ctcaatcaag ataagtatta caaagttttt tcaaaacttt 300

gaatagcaca tggttttttg acaaaacttt taccaaagag tttttactct cttgtaatcg 360

attaccatat tgttgtaatc gattaccagt agcaaaatga gtttgaaaaa gttttcaaac 420

tgaatttaca acngtccaat tattttcaaa agactataat cgattacaat gttttgtaat 480

cgattactag tgccctcgaa cgttgaaatt canatttaat gtgaagagtc acatcctttc 540

actcaaagc 549

<210> 5366
<211> 552
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5366

agcttgaagg caaactggat gcattggtta acttggtaac ccagctggcc ttgaatcaga 60

aatctgtacc tgttgcaagg gtttgtggtt tgtgctcctc tgctgaccac catacagacc 120

tttgcccttc tatgcagcaa cctggagcaa tcgagcaacc tgaagcttat gctgcaaata 180

tttacaatag acctcctcaa cctcagcagc aaaatcaacc acaatagaac aattatgacc 240

tctccagcaa cagatacaac cctggatgga ggaatcaccc taacctcaga tggtccagcc 300

ctcagcaaca acaacagcag cctgctcctt ccttccaaaa tgctgcaggc ccaagcagac 360

catacattcc tccaccaatc caacaacagc aacaacccca aaaataacca acagttgagg 420

ccccctccaca accttccctc gaagaacttg tgaggcaaat gactatgcag aacatgcagt 480

ttcagcaaga gaccagagcc ttcattcaga gcttaaccaa tcagatggga caattggcta 540

cnccaattga at 552

<210> 5367
<211> 564
<212> DNA
<213> Glycine max

<400> 5367

tagccctaga ggggatggac cttttcaggt tttggagagg atcaataaca atgcctatag 60

gttggacctc ccagaagagt atggagtcag caccactttt aacatttttg atttaactcc 120

ttttgcaagt ggagctgata ttgaggagga ggaactaaca gatttgaggt caaatcctct 180

tcaaggggaa ggggatgatg caatcctccc taggaaggga ccaatcacta gaaccatgag 240

caagaggctc caagaagatt gggctagagc tgctgaagaa ggccctaggg ttctcatgaa 300

ccttagggta gatttctgag cccatgggcc aaggttgggt ccaattatct ttgtacatat 360

tagactagga tgtcattata tttggtcctt gtatttaggg ctccatattg taggtagggt 420

accctagaaa tataggattt ttcagccctt gtatttttgg gcacctagac taatttttgt 480

atttggggta gttctgtaat ttcacatgca ctaagtggat atttgatgtg tgtgggtgga 540

aataaaatta attgaattgg taga 564

<210> 5368
<211> 443
<212> DNA
<213> Glycine max

<400> 5368

tccctttttct tgaagcaatt ctgggaacta actccccctt ttttctgcca tctctcttta 60

attttatata catatatatt atatcttttt cctacatagc taacttttcc ctcttacgca 120

tacatataga tatttttatt tcaattgaga tgtttattga gcacacggat tgttgaattt 180

taatcaagta tgtgtgtgtg ttatgagcag ccttggcagc tattggtgag aaggagtggt 240

acttctatgt gcccagagat aggaagtatc gcaacggtga tcgtcccaat cgtgttacta 300

cctctgggta ttggaaggca acaggaactg atatgatgat ccgaaccgag aattttcgct 360

ctattggcct caagaaaacc ctaattttct attctgggaa agctcctaag agcatactaa 420

ccagttggat aatgaacgag tat 443

<210> 5369
<211> 545
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5369

agcttgatat gtggcactct atattacaga aacaagcccc cacaaggaag tattttaact 60

cccgtggctc aggttcttgt cgctgcattt tccaaaagaa accttccatc ttccccatca 120

tccatgatca gagtggaaca agttgagcaa gtgaagatat tgctatctgt tattccgata 180

ttctcgtgca ccatcgtttt caacaccatc ttagcacaac ttcagacatt ctcagtccaa 240

caagggagag caatggacac ccatctcacc aaatccttta atatccctcc cgcctccctt 300

cagtccattc cttacatttt gctcatcttt ttagttcctc tctatgacac cttctttgtc 360

ccatttgcca gaaaattcac cggccatgag tctggaatct caccttttgcg ccgaataggc 420

tttggtcttt ttctggctac cttttctatg gttgcagctg ctctgttgga gaanaagaga 480

agggacgcag ctgtgaacca tcacaaaagt ttgtccatct tttggataac ccacaatact 540

tgata 545

<210> 5370
<211> 556
<212> DNA
<213> Glycine max

<400> 5370

tgctaagtgt ttgtgtaagt gattctagca tcttagctag cagcttgttc tgtgccaata 60

gtgcatcttg ggaagaaagc tctaacatgc ttctttttgt ggttacgtga gttttatcac 120

gcagaatagc atgatcacta gcagccatgt tctctatgag ttccattgct tcttcaagag 180

tcttcaattt aatttttcct ccaacagaag catccaataa ctgcttgaac tgcagtctca 240

aaccatcaat gaaaatgttc agttgaatcg gctcggggaa tccatgagtt ggtgtcttct 300

gcagaaagct acagaatctc ttaagcgctt cacttaggga ttcatctaga aattgatgaa 360

atgaagaaat agttgccttg ccttcagctg tctttgattc tgggaagtac ttcttcagaa 420

atttctctac aacctcttcc caagtcttta agttgtttcc cttgaaagaa tgcagccacc 480

tcttggcttc tccagccaaa gaaaataaga acaagctaag ccgcactaca tctttcggca 540

cccctacaat tttcac 556

<210> 5371
<211> 533
<212> DNA
<213> Glycine max

<400> 5371

agctttcaat tttttcaagc attgaacgat tcttatgaag aattatacaa taaagacaat 60

gaagtatctt aggacaaata atgacttgga atcctgctct aatgaattca atgaattcta 120

gagagatgaa ggcatggcaa gataatgtat tctatgttat actccacaac ataaagtagc 180

tgaaagaatg aacaaaacct tgttggaaag ggccagatac atactatcga attcaagctt 240

gaataagagt ttttgggaag aagtagtcaa caaaacatgc tatattgtgt ttgacatgca 300

atcacgtaag tgaaggtaag ttagagccaa aagccaataa gagattcttt atgggctatg 360

aagatggagt caaaggatta tgagtctggt ctctatctaa aagaaagtca ttctgagtca 420

agatgttgac tttgatgaac cctctatgct gcattctaaa tatgatgaag atttggccaa 480

ggctaaggat gtcactaagc aagttgaagt taagagctcc acaatcaaaa aca 533

<210> 5372
<211> 275
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5372

ctatttatgc aaggacgcat ttgagtggtc cctcgaatca caagatgctt tcgataccct 60

caaatccgct atgatcaaca ccccagttct ggcccttccc aatttccatg aaccatttgt 120

cgtcgagacg gatgcttcan gcactgccat gggggctgtg ctctctcagc aagggcaccc 180

attaccgttc ttcagcaaga acttcaccct tcgcctcttt atgcgtaaac ctatgtgagg 240

aaactccatg ctatcacatc cgcagtgcgt aaatg 275

<210> 5373
<211> 595
<212> DNA
<213> Glycine max

<400> 5373

agcttgttta ccccatgttg aatttgctta caatagagct ggtcatagca ccactaattg 60

ttctcctttt gaagttgttt atggttttaa cccactaact cctcttgatc ttttgcctat 120

gcctaatgtt tctgttttta agcataaaga aggtcaagaa aaggtggact atgtgaagaa 180

gcttcatgag agagtcaaat atcaaattga gaggaaaaat aaaagctatg ctaaacaagc 240

caacaaaggg agaaagaagg ttgtcttcga acccacagat tgggtttggg tgcacatgag 300

aaaagaaagg tttccagaac aaaggaaatc aaagcttcaa ccaaggggag atggaccatt 360

tcaagtgctt gaaagaatca atgacaatgc ttacaaagtt gagctgcccg gagagtataa 420

tgttagttcc accttcaatg tctttgattt atctcttttt tgatgcagat ggagaatccg 480

atttgaggac aaattcttct caagagggag agaatgatga ggacatgttc tagacaaggg 540

caaggatcca cttgaagact ttgaggacct ttgacaaggc taaagcatgg aaagc 595

<210> 5374
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5374

tgagcccgct tatctttgta catattagat taaggtttca ttatttttgg accttgtatt 60

tagggctcca taatataggt aaggtaccct agaaatgtag gatttttcag cccttgtatt 120

ttaggacact tagactagtt ttttgtatta ggggtagttt tgtaatttca caagcattaa 180

gtgaatattt gatgtgtgtg gttggaaata aatttaattg aattggtagg agcccaatcc 240

aattaaattt tagaggggga ggtgagcatt tgctagctac accccattgc cacatcatat 300

agtcacactn tgtgcatgtc cttcatgctt tacatgcctc atgacaccaa agcacactta 360

gtggagaatc ttggacttga tcttggatta gtgggctgaa ccataactaa nattcattaa 420

tcataattag tgaaatttgg ctccaaaatt ggctcccaaa at 462

<210> 5375

<211> 494
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5375

tactctaatt ttgaaaatat tatacctata tatggtgaca ttactagagc aatcaattta 60

tctaagaatc tcatgcaaca ttcaaaggct aagcatattg aaataaaata tcatttcatt 120

catgattatg tgcaaaaggc atttttttata taaagtttgt aaacacaaat catcaatgga 180

ttggtatatt tactaagcct ttgtctgaag atcattttat ctgtaaagca tttgaatatg 240

atcgagctat tagattaatg ttgcattttc agaggcaata tcattttata acctctcatt 300

aatttgtttg gactaatgtg tgttcaagtg tacacacgga agagaaagcc tgttcacaaa 360

aataaaaacc cttcattttc tcttaaaagg gaaactaatt aataaaaaaa taaaaagatc 420

aaaatcataa attaataatt ataggaagac anaatgtcaa tttaatctaa aagtataatc 480

acccaaacag aaat 494

<210> 5376
<211> 571
<212> DNA
<213> Glycine max

<400> 5376

tgcttagtgt ctctgtgagg gtctctagtt gcttggctag gagcttgttt taggctagta 60

atgcgtcttg tgatgtgagc tcgagaagga tggcatggtg tgtaggctcg atcacgaagg 120

atggcatggt cactggctgt catattttcc atcaactcca tagcttcatc aggtgttttc 180

agtttgatct tcccaccagt ggaggcatca tgtaactgct tcgaatgggg ccaaaagcca 240

tcaatgaaga tattgagttg aactgactcg ctgaaccagt gggtgggaat cttccagagt 300

aaaccatgga agcgatcaag agcttcactc agtgattcat cagggaattg gtggaatgaa 360

gagatctcca cctttccctt agcggtcttg ggctctagaa aatatttctt caaaaatttc 420

tccaccacct tttcccattt ctgcaagcta tttcccttga acaagtgcag ccatcttttt 480

gcttcaccag ccaaggagaa aaagaatagg ttgaggtgga tggcatcttt aggaacttca 540

tctgttttca ctatgttgcc aattttctat g 571

<210> 5377
<211> 548
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5377

agctttgtct ctttactaaa gcatgttcgc attgtagtga agaaaacacc gagactattt 60

tagtctcaca gttatctaga actacgtaga tctgagttcc tcattgagga tacgtaggag 120

caagagcctc gcttttgtcg gccgccccac aatctctgtc atactgaccc tgaggtcatg 180

tgacatgcag agacaaatta tgatcattcc gcacaccttt ttccatccag atacgatcgt 240

gtccgatggc acgcagagat aaattatggt cattctgcgc cttttgtcat ccagaggcgg 300

tgagcccgat gacatgtgga gacaaattat ggtcattccg caccttttgt catccagata 360

cgatcgtgtc cgatggcacg tatagacaaa ttatggtcat tctgcgcctt ttgtcatcca 420

aaggcggcga gcctgatgac atgcanagac anattatggt cattctgcac acttttcgc 480

catccggaga cgatcatgtc cgatggcaca caaagacaaa atatggtcat tctgcgcctt 540

ttttcatc 548

<210> 5378
<211> 533
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5378

agcttcataa atccatcact tttaatattc tctacacaaa aacttaaatg atgttaattt 60

aacaattatt tgctcaaaaa ataaaaaatt agaagagaaa aattacaaat tcctctataa 120

tttaaccccc aaaatatact cataattagt agttatcagc ttccagatag tggtatctta 180

agtttaatga tactattacg tggtatggtt tcctagagaa caccgttgat cggtgtatct 240

acatgaaggt tagtgggagc aaatttgtaa ttttagtctt atatattgat gatattttgc 300

ttcctgctaa taatgttgct atgttacata atgtaaagaa gtatctctct aataacttta 360

aaatgaaaga tatgggtgag gcattttatg tgatacgaat agaaatattc tgtaatagat 420

cacaaggatt gttgtgattg tctcagaaag gatatatcaa taaagtttta gggagattca 480

aaatggaaaa atgcnttgga gggattgtta caatacaaaa aggtgacaag ttt 533

<210> 5379
<211> 560
<212> DNA
<213> Glycine max

<400> 5379

tactaagcct ctaaaatcca ttattccaag aggagataat ccaaattgat ttatttttt 60

tgaagaaggt agctcaatta gggtgcaggg ttactatttg ttcacttgat ataaatcaag 120

aagcaaaaac aaagtgaaga aaatggaata agcaacatac atatatggtg tatccctacc 180

aaacttcttt tgattaaata atccagaaag aagcttgatg taacctccac cacattcaat 240

ctcttgctca aattttacag aatactgaaa gaccaatatt ttgttcttgt ttgtgaattc 300

tggtattttt gcagaaatgg aaaagtgttt ggcatcactc gatgtttgaa tacctacaat 360

atcctacaaa atgacaacat gttacaaaac caaccaaatt cctgtcacta cccattttga 420

catattaaga aaggaaacaa atacaagttt tatttttgtt catattaaga aaggaaacaa 480

atactaccac ttgtgtatat ttcatttttt cttgcctttt atttttaaaa ttgatatact 540

tttactaata attacaaaaa 560

<210> 5380
<211> 535
<212> DNA
<213> Glycine max

<400> 5380

agcttgaaga ccagatggtt tcaatgcttt attcttcaag aaggcttgga atatcattgg 60

tgatgatatc tttgaggcgg ttaatgaatt ctttacaact ggaaaaattt taaagcagat 120

caaccatgct atttttgcgc ttattcctaa gcatgatcag gcctcccaag ttaaccattt 180

tagacacata tcttgttgta atttattata caagattgtg tctaaaattc tggccaaccg 240

catagcccca gtgcttgaga ctattattgg ggaaactcaa actgccttca ttaagaacag 300

aaagatgatg gacaacatct tcctcgttca agagattttg cgcaaatatg cacggaaaag 360

atcctctctg aaatgcctcc tgaaaattga cttgcataaa gcttatgatt ccatttccta 420

ggaattcttg aattggatgc ttcagtccat tggcttccca acccaattct gtactttgat 480

catgaaatgt gtttctttca cttcctttag tgtgacagtc aatggattca attta 535

<210> 5381
<211> 592
<212> DNA
<213> Glycine max

<400> 5381

agcttatgct gcacacatct acaatagacc tcctcaacct cagcagcaaa atcagccaca 60

acagaataac tatgacctct ccagcaacag atacaatcct ggatggagga atcatcccaa 120

ccttagatgg tcgaatcctt cacaacaata gcagcaacaa caacagactt attttcaaaa 180

tgctactggc ccaagcagac catacgtacc tccaccaatc cagcatcaaa aacaacaaca 240

gccccagaaa caacaaacag ttgaggctcc tccgcaacct tcccttgaag aacttgtgag 300

gtaaatgatt atgcaaaaca tgcagtttca gcaagaggcc agagtctcca ttcaaagctt 360

aactaatcag atgggacagt tggctacata gttaaatcaa caacagtccc aaaattttga 420

tagattacct tctcaatctg tccagaatcc caaaaatgtg agtgccatta cattgaggtc 480

aggaaagcag tgtcaatgac ctcaaccagt agcatcttcc tcatccgcaa tgaacctgcc 540

caacctcact ctacttcagg aaaagatgat gacaaaaatt taaagagtag tt 592

<210> 5382
<211> 346
<212> DNA
<213> Glycine max

<400> 5382

ttaccatttg aatttcggga gagatttcga agtttaaatt cgagcggatc gatatattat 60

aagcctgaat cggacattcg tgtgaaaaga tatgaccatt tgaatttctc aagagcttgc 120

gttgttcaat tccaacctct caacatatta tgcgctccaa accgaccttc ccggggaaag 180

gtattaacca tttgaattct cgagaagttg cgatggttta tttccaaccg gtccatatat 240

tataagcctg gaaccggcct tccgggggaa aggtcttacc cattggattt ctaaagaacc 300

ttcggtggtc aaatttgaac ctcttgacat tttatgcgcc ccaaac 346

<210> 5383
<211> 536
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5383

tatccttaaa caagtattag caacatcacc caatacttgt ttaatttttt tctcaccatg 60

acattggtgg gagtatccac cgggtttgtt gatggctaat ctccaccgaa aaatttggtt 120

ggtcatctat agtggaattt tcccttccaa ccacgtttgt tccatccaca aagctaacac 180

tcaagacctt gcttactctg accaacgaca tgttagtaat acttgtttaa tctagtatta 240

tgtgtactta ccaaggacgt tgaaggttat ccttgaaagc atgctttttg caaacaatat 300

aattcttgag taagagatta attctaaatt taagaattgg agttaaaaat tagaaccaga 360

ggatctttat caagtagaag acacagtata tgctttgcag tttaagcaag aaacaagagg 420

aaaatgcctt ggaggtaaaa attggagaag tcataccaca agtttctaag cttgactatt 480

tgattccaaa atgatgggaa aattaatgat gttacacaca aaatantaag tgggtg 536

<210> 5384
<211> 522
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5384

agcttgcttc tacaatctcc ccctttttga tgataacaac tctaaaatca agaaacacac 60

acacacactt tttcctagtc gatcactcgc ataaatttcc attctcccct tttgtttttg 120

agtttatgct tcatttgaaa ttaagttaat tacttatgtg agttcttgat ttattcccta 180

tttctctccc cctttggcat caacaaaaag ccaaagtgcg taacaaatat aaaacataca 240

taaatgacta atcatacaag agaatagaaa acaatcaaac aagataactt aaccattcat 300

caatcttaga aagataatac ttcatagaat gtcatataat ccagaaagtc attcataata 360

accaaataaa agtacatacc actgatcata tattatcaaa ataattaagt ttaaaattca 420

taaccataaa caaccaagag caagtaaata taatcatcat gttcaggcat actanacaaa 480

tattaaaaaa gaaataataa gtgctcaaat gtcatanaaa ca 522

<210> 5385
<211> 504
<212> DNA
<213> Glycine max

<400> 5385

tgtaggaaat tcaaacgaca ataacttttt acttggatgt ccgattgaat cgggtaatat 60

atcgagacgc tcaaaattga gactagaagc tcttagcaaa ttgaaatgac aataacttta 120

tacacggatg tccggttgag tcccgtaata tatcgtgacg ctccaaattg aaaacggaaa 180

ctcttagaaa attcaaacga caataacttt ttactcggat gcccgacaga ttgtcgtaat 240

ttatcgagag atgctccaaa ttgaaaatag aagctcgtat catattgaaa cgacaataac 300

tttttactcg gatgtctgat tgagtcccgt aatatatcga gacgctcaaa attttaatcc 360

gaagctctga gaaaattgaa ttgacaatga ctttatacac ggatgtccgg ttgagccctt 420

taatatatcg agacgctgca aattgaaaac agaagcttgg aggaaattca aacgacaata 480

acttttttact cggatgtccg attg 504

<210> 5386
<211> 544
<212> DNA
<213> Glycine max

<400> 5386

agcttgtacc aaattcaaac gacaataact tttttctcga atgtccgatt gtatcccata 60

atatatagag acgctccaaa ttggaaacgg atgctcgtaa gaaattcaaa caacaacaac 120

ttgttactcg aatgtccgat tgagtcccgt aatatatcga ggcactccaa attgaaaacg 180

aaaactcgta gcaaattcaa atgacaataa ctttttactc ggatgttcga ttgagtgccg 240

ttatatatcg acacactcaa aattgagatc agaagccttg agcattttca tatgacaata 300

actttatagt cgcatgtcct attgagtccc gtaatatatc gggatgcttg aaattgataa 360

tggaagctcg tagcaaattc aaacgagaat aactttatac aaggatgacc gattgagtct 420

cgtaatatat cgagacgcta caaaatgaaa acggaagctc gtagcaaatt caaacgacaa 480

taacttttttt ctcggattcc cgattgagtc ccatattata tcgagatgct ccaaattgaa 540

aacg 544

<210> 5387
<211> 530
<212> DNA
<213> Glycine max

<400> 5387

agcttgaaac ataacatcta ttgcaggtac caccgcttta gcaactttgt tttttatcgc 60

tttctccatt ccatcctaaa ataaccaaaa agagaattca ccatgtaata agtattctga 120

atcggtaata aagaaaatgg aaaacaagga caattgaaat aaaaaaatag tatgcaggat 180

caaaccatga aagcatatgc agaaatggac ccctaaatat atatttttat caaaaaggtt 240

tttcctatta atagttgaca gttcttgcat atagcaaacc cttaagaaaa ttaaaaatat 300

atatatataa aatcaaaaca ccgtctaaca ctcattctta ggacatgaat aactggacaa 360

gtaacccatg gatgattgaa ccatccctct gttgtcttca agactaggac agcaaatatt 420

tgcctttcta ggttctaggg tctataaata aaagaaaaaa acccgagata aatcattcat 480

tcaatcataa gtgaaagaaa acatgaagaa tatatttcta aaaatactat 530

<210> 5388
<211> 489
<212> DNA
<213> Glycine max

<400> 5388

gaagcttgac aagcagttgg gccaaaagat ttctctcggt gtcctttctc tcaaacgagt 60

ctgtgaccca gagagaaacc atggaaggat gaaagcctgg gtagttcaga tctttgatgc 120

atagaacaac ttcattcaca tctctagcac tggattgaat agcaactgtc agaaaaatat 180

gtaacaagac aaaataactt gaaaaaatat catcatcgta gcactacaaa aattagaaat 240

caagtttctt tgtgactact taaaaagcat agttactcaa cagggattcg aatcgtgaat 300

tgcccagcta atttttaat catgaaacat aatttgtatc gaattgtaag actcaaaaca 360

attaaaaatt acttcaaata tatcatataa ttgatatgta gtgctcaatg taaaaattta 420

aaatagaaat aaataaaata acttaaccat aagttctata taaacaaatt attaggtata 480

tctaaatct 489

<210> 5389
<211> 564
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5389

agcttcatcc gtgggtcaag aatcatagca attgaaagaa tgacattatg gtcactccaa 60

tacttgccaa acttttccat catcaacact gccatatttt gcaatactgg atcatcacac 120

ttaagtgttt ctcgcaacaa ccattcaatt ttccatactt gcatgaagta ttcattggaa 180

gttggataag atgtacctaa aaaaatttca aataagataa ttaaactata aatataaatc 240

tgaaactatt tattataatt atgaagtttg aaaaaatata actgaaatca aattagtcat 300

cttataaaat ggcttaaaaa attcacccac tttttcagct cttttccatt cctcattaga 360

tggacaacat ttgtattttc tatcacgaat aatgaaactt gcaaaagcac aacgatacct 420

aagagcactc tcaagcatga tataagtaga attccaccga gtaggcacat ccaacctcaa 480

gcccactnta gtatcaatac ctcttacttg agcaatacan ttgataaata ctatntttct 540

tgactcagag ctctcacata ttta 564

<210> 5390
<211> 562
<212> DNA
<213> Glycine max

<400> 5390

tcttgttgtt actatgaact ttcaatattt cttccctccc tctttcatct ggtaatccaa 60

cagtgaccta ttggaacaat tacaaattgt catgtcttat aattttgttg aatttttagt 120

aactactaac tagcttaaaa gtcataccta ccaactgatt gatcgatcgt gcaaaaagtt 180

ttatactact agcatattat aataaaattc attgtcttat acgttaaaat ttgtttattt 240

ttatagtaat tactttaaaa gctatattta taataaattc tgatgggtta atgatttaca 300

atagcaatgc atggaaatta aactgataaa taataattat ataggcatta acaggggtta 360

attataaagg attctaaagt tgcaagtaac atacctgtct atcaaacctc ccaggtctaa 420

gcaatgctga atcaagaatt tcaggtctgt tggtagcagc aatgactata actccagtgt 480

tttcagtgaa accatccatt tcaatgagca actggattag tgtttgctcc ctttcatcat 540

tttctccacc tatacctgta cc 562

<210> 5391
<211> 484
<212> DNA

<213> Glycine max

<400> 5391

tctggaagga gatcaacttg atgttctatg cctcttgaag gtggcagtcc atgaggaatc 60

tccataggaa agacattttt aaatttctgc aataagggtt gaacactagg agaaatagaa 120

atagtaaact cattagaatt atcagtagaa attttactgt ctttgcaata ctgtagattg 180

agtggttcat gagcaggtaa cactttcctc acttcactcg cctctgcaaa ataattaaat 240

tttctctcat gtgtatcact ctctctctta tgtgtatcac tcttttcctc gggtgtatca 300

ctcttctttt tcatattcct ttgtggggcc tcactatttt ctttctcttg ttctctcttt 360

tctctcattc tgatttggtc atcacacact tctctaaggg atagaggttt aagagtaaac 420

gaggaagatt tggctattcg tctgtaaggc ttttctttgt tacggttcaa caaatgttgc 480

attt 484

<210> 5392
<211> 437
<212> DNA
<213> Glycine max

<400> 5392

agcttgaaat tgatcaacag aagctctcga ggactttaaa tggtcataat ttgtaacacg 60

gaagtccgat tcaggcgcat aatatgccga gacgctcgaa attgaacaac ggaatctctc 120

gagaaactca aatggtcata acttatcaca cggaggtccg attccggcgg atagtatatc 180

gagaagctcg gaattgaaca acgaaagctc tcgagaaatt caaatggtca taacttttaa 240

aacggaagta agattcaggt gcataatata tcaagaagct cgaaattgaa caacggaagc 300

tgtcgatata ttcaaatggt cataacttat cacacgaaag atcgattcat gcgcatgata 360

tatcgagacg ctcgaaattg aacaacggaa gctctcgaga aattcaaatg gtcataactt 420

atcacacaag cgggctg 437

<210> 5393
<211> 473
<212> DNA
<213> Glycine max

<400> 5393

agcttcttca aaaatattgg gttatactca tgtgctccaa gatcttcaag actttgaatc 60

agttcaggaa tgtcatcata aagaaaatac tcatgaatta tagttacaga ttccttttg 120

tacttcctca ccttctcatc ttcttggatt tccccatctt cagatgcagg tttggaaagt 180

gaagcatcaa gccatccttc agatattgcc ttggggacaa atgactgaaa caatgcctta 240

gctgatggaa tatcaagagc aagatcatct agggattctg ccaaacgaga aaacccttc 300

accatttggc tggaactaac cagtccttct tctgctgctt cttttaatag cttcaacatt 360

ggaggttctg cggaacgtat ctccatggca agtatcacag ccctcttaac aacctcatga 420

tggaagaatg aaacccccaa ctccgtatac acctacaggc tttcaatgtg gca 473

<210> 5394
<211> 635
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5394

agcttaccag gctctcaaat tgctcaactt cgatgaagcc gcatatggag aaaggagaaa 60

attatagttg ctggaattaa aggaaatgag actgaatgcc tatgagtcct ctagaattta 120

caagcagaaa atgaaggcgt atcatgacaa gaaattgcat aaacagaact tccagccagg 180

ccaacaggac tctttaactc taggcttaga ttgttcctag gtaagttgaa atcgaagttg 240

ttaggaccgt ttgtcattaa agaagtgaga ccccatggag caattgagtt ggaggatcct 300

acaagaagca atcttgaaaa aaatggatac tcaatggaca acacttgaag atctacaatg 360

gcagacaatt agagaggctc acaagcattg tctatttaaa tgacccgtga agaaaacaca 420

acgtctagtt aaagacgata aactaagcgc tagttgggag gcaacccagc acatatgtac 480

aaaatccatc tttctggact ttttcaaaaa aaaaaaagcc caacaagtgt atacagtaga 540

aacaggggtg caagaaagca aaatcagatg ngctcacgaa gactcgtgct aagcacgcta 600

cttggcgcta agcgtgcagg atgtcacatg cgctt 635

<210> 5395
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5395

tgcagttagc tgtacttgtg aatttatgaa gatgacctct ttgttcacct tcccagaggg 60

agtctctgat gccgacttag ttctcttggt gactacaaga cctacaactg gaaatacact 120

tgcttgggct gtggcatgtg aacgggacca atggggccgt gctatagctg gtacattatc 180

ctataattgt gttggtttaa atggtggtct ttatcttgca tttgggatgc tttgtaactg 240

aaagtgcctt tttgtttgtg tgcaggacat gttaatgttg ctcctcgtca tttgacagct 300

gaggcaaaga ctntgctttc agcgactctg atacatgagg tttgattatt tttttgtgtc 360

tagaagagat tatatttgaa gcatggctga 390

<210> 5396
<211> 478
<212> DNA
<213> Glycine max

<400> 5396

tctaaacttt atacaagaat gaagctctga taccacttgt ttataagtga cctcagtatc 60

ttaagaagag aggttgaatt aagataccaa actatcccca actaaaaatt atctctctct 120

ttaactaata atgaaaccct aattatgaat tatttcaaga acaattcaaa ataaacttct 180

ttaaagcgaa atataaactg caataaaata aaacaagttt aagggaagag agaatgtaaa 240

ctcagatttt atactggttc gaccatgtcc tgtgccttcg tccagtcccc aagaaacctg 300

cttgagattt ccactatctt gtaaaatcct tttacaaaat tctgaaccac acagggacaa 360

ccattccctt gtgttcagat aaccttacaa cttaagagac cctcggtctc ttaatcagat 420

ttctttgaat aataagaaga agcattttct ctgtttacac aaagatgtac aatgaaag 478

<210> 5397
<211> 457
<212> DNA
<213> Glycine max

<400> 5397

tcagagactg cagcaggata tgagaaggtt tagcaaaccc ctgtgtaatc taaagcagaa 60

tctgatcaaa gccagagaag atcttcaatt tgctcacgaa aaccttagaa acaataacat 120

gaatggagat agaattgata gagtgaggca gctgacagaa gaggttatta atcttaatga 180

attggaggaa aagatgctta tgcagagagc aaaagtggat tggataagga aaggtgatgg 240

gaataactcc tttttccatg atattataaa aagcagaaat aatagaagaa gtatatacat 300

gctgtagaaa actgatggaa ccttgcttga aaaccagtct gagatagagg atgagatcat 360

ggatttctac aagaaactca tggggactga tgatagccag ctgcaccata ttgacataga 420

tgctatgaga aatggcaaac aagttaatat ggagcaa 457

<210> 5398
<211> 431
<212> DNA
<213> Glycine max

<400> 5398

tatatatcaa agatatgaca acttataagt tgttagctac ttatacttag attttgttgg 60

ttgcattgac tctcggaagt ctcaacatct ggatacatct tcatgatggc taatggagca 120

atatcttgga caagtgcaaa acaatcatta gtttctactt ctaccatgaa ggttgagttt 180

atttcataat ttgaagcaac atcatagggt atttggttaa aaagtttcat ggccgatcta 240

caagtgattg attacattcc tagactggta aaggtgtatt gtgataatcc agctgttgtt 300

tttctggcta aaagcaataa aagagaaagt caaacattga cattaagtgt ttagccatga 360

gggaacatgt caaagtgaat gaaatcatta tttaacacat cactattgaa ctaatgattg 420

tagacccatt g 431

<210> 5399
<211> 665
<212> DNA
<213> Glycine max

<400> 5399

agcttgtcaa tcttttgagc aaggaccgcc cccaatgcat aattggatgc atcacacatc 60

aactcaaatg gggctgtcca gtcagatgcc tgaatgatag aggtggtagt caatgcatgc 120

ttgtggcaat caaaagcctc tttgcactgg tcatcaaaat caaactccac ctccttttgc 180

agcagattgg atagtggaag ggccactttg ctaaagtcct tgataaagcg cctataaaac 240

cctgcatggc cgagaaagga acgaacctct cacacacaag aggggtaagg caattgtgaa 300

ataacagtta tctttgcagg gtctacctct atgcccttat tggaaattat atgccctaaa 360

actatacctt gttctaccat taagtgacat tttttaaaat tcagcacaag gttagtttca 420

atgcgtctat taagaactct atccaaacta tccaaacatg catcaagaga ggatccataa 480

acagtaaaat catccataaa cacctcaatg caactctcta aaaagtcact gaaaatgcta 540

agcatacacc gctaaaaggt accaggggcg ttgcataagc caaagggcat ctttctataa 600

gaaaaagtgc aaaggacagg tgaatggggc tttttctgac cctaggagca tatgaattgt 660

aaata 665

<210> 5400
<211> 552
<212> DNA
<213> Glycine max

<400> 5400

agcttggatc aactcatatt acttttttatt attttacttt ggtcaaaaaa ttagacaagc 60

gctaaatatt gaaatttctg atatttatga accacaagca gacattgtta cagcttcttt 120

gtcaacatgt aattggactt tgcaactatc caatcaatca tagttataaa ttagtaatca 180

tatcacaaat tatagatgaa aattacttat ccattcattt aaagattaac cattggttaa 240

aagaaaaact tatacgatat caattaatta catatataat atctatatct agaactataa 300

tgatctaatt gtctaattga caagattaca aacgtctcgt ttaatatctt tccgtcaaga 360

ttaccttagc ttagggtata tatatttcgc aacgacttcg ttgacattaa tggtgaagta 420

gttggcgtgc atttgtcacg aagaagcaaa gaagaaccct tactcggggt cactaacaag 480

gcgtgcgtgc tcgttatgct acttgtctac acttcaaaat taaaataaaa taaataccag 540

ggctttaaaa ca 552

<210> 5401
<211> 190
<212> DNA
<213> Glycine max

<400> 5401

tgctacaatt aacacctgaa gctctcagat actaccctgg atgtaggaat taccacacac 60

tcacatggtg gaaccctcat ctataaaaac agtagcctgc tacttactta caaaatgctg 120

aaagcccaat cggaccatac attcctacag cggtccaact tcggcaacga ccacagaaac 180

atgctacaga 190

<210> 5402
<211> 579
<212> DNA
<213> Glycine max

<400> 5402

agcttgaatc ggacctcagt gtgaaaagtt atgaccattt gaatttctcg agagctttcg 60

ttgttcaatg tcgagcatct cgacatatta tgcgctcgaa tcgaacatcc gtgtgaaaag 120

ttatgaccat ttgagtttct cgagagcttc cgtggttcaa ttccgagtat ctagacctat 180

tatgtgcccg aatctgacct tcgtgtgaaa agttatgacc atttgaattt ctcgagagct 240

tccgatgttt aatttcgagc gtctcaatat attgtgagcc tgaatcggag ctcagtgtga 300

aaagttatga ccatttgtat ttctcgaaag cttccttggt tcaattccga gcgtctcgac 360

atattatgtg cccgaatctg accttcgtgt gaaaagttat gaccatttga atttctcgag 420

agcttccgat gttcaatttc gagcgtctca atatattgtg cccctgaatc ggacctcact 480

gtgaaaagta tgaccattgg aatttctcga gagctttctt ggttaaattc gagcgtctcg 540

attattatgg gcctgatcgg accttcgggg aaaagttat 579

<210> 5403
<211> 520
<212> DNA
<213> Glycine max

<400> 5403

tatgctgcaa atatttacaa tagacctgct caacctcagc atttaaatca accacagcag 60

agcaattatg acctttccag caacagatac aaccctggat ggaggaatca ccctaccctc 120

agatggtcca gccctcagca acaacaacag cagcctgctc cttccttcca aaatgctgct 180

ggcccaagca gaccatacat tcctccacca atccaacaac agcaacaacc ccagaaacag 240

ccaacagttg aggcccctcc acaaccttcc ctcgaagaac ttgtgaggca aatgactatg 300

cagaacatgc agtttcagca agagactaga gcctccattc agagcttaac caatcagatg 360

ggacaattag ctactcaatt gaatcaacaa caggcccaga attctgacaa gctgccctct 420

caagctgtcc aaaaccccaa aaatgccagt gccatttcat tgaggtcggg atagcagtgt 480

caaggacctc aacccgtagc acctttctta tctgcaaatg 520

<210> 5404
<211> 625
<212> DNA
<213> Glycine max

<400> 5404

agcttttgag tgaaaccatg tgactcttca cttttaaatt tgaatttcaa cattcaagga 60

cactggtaat cgattaccaa aacattgtaa tcgattacag ccttttgaaa atatttggaa 120

cgttgtaaat tcagtttgaa aacttttca aactcatttt actactggta atcgattaca 180

acaatatgat aatcgattac cagagagtaa aaactctttg gtaaaggttt tgtcaaaaac 240

tcatgtgcta ttcaaatttt tgaaaaactt tttaatactt atcttgattg agtcctttct 300

ttattcttga atcttgagtc ttgaatcttg atcttgatta ttgagatctt taatcttgaa 360

tcttgattct tgattgtagg ctttcttctt gagtcttgaa ttcttcttga ttcttgaact 420

cttgacttgt tcttgattca cttgagttgt tctttgatct tttgagcttt ttggtcatca 480

cctttgtcat catcttttgt gtcatcattg ttatcatcaa aacacctttg aatcattggt 540

gattcatcat gaatctttgc tttcacaata ttgcctaccc tgaataccct aacctaacct 600

gtaccctgta tgcatgtgac ctact 625

<210> 5405
<211> 353
<212> DNA
<213> Glycine max

<400> 5405

tagaacaaat attttgaatt ctaggtcccc ttagagattt tgttaagatg tctgctagtt 60

gatcattaga actaacaaat ttagtaataa ctttgttgga tcaagtggcc tatgaataat 120

taagaagggg ggttgaatta attattgcta aacctttact aattaaaaat ttctcttctg 180

agacttttac taaattgtta agagaatgag gagtgaaaga taaacttaac agatagtcaa 240

agcgaaaatt aaatgcacag cggaaagtta aagagtatgg aagaaggaga caaacacaca 300

agagttttta tactggttcg acaacaaccc gtgcctacat gcagtcccca agc 353

<210> 5406

<211> 509
<212> DNA
<213> Glycine max

<400> 5406

tctaaacttt atacaagaat gaagctctga taccacttgt tttaaagtgg cctcaaatgt 60

cttaagaagg gggggttgaa ttaagatatt ataaactatt tccccaatta aaattttatt 120

tcactttcta ttcaagttac aaattccctt aacaatgaac ttcttaaata ttgattcaaa 180

tagaacaatc tgaatatgaa tataaaacaa taataaataa atgagtttaa gggaagagaa 240

agtacaaact tggatttata ctggttcggc cacacccttg tgcctacgtc cagctcccaa 300

gcaacccgct tgagagttcc actatcttgt aaaatccttt tacaagttct gaacacacaa 360

ggacaatcct tcctttgtgt tcagaattct tttacaacaa gagaccgtcg gtctcttaat 420

cccttagaga atttgaaaga agagaagaat gaatctctct tgaaagagat agattttaca 480

atctgagcac tctaatgatt ccttaatga 509

<210> 5407
<211> 553
<212> DNA
<213> Glycine max

<400> 5407

agcttgacaa gtttataagg tcttcctcat agctgttcta agcaaaggtc ccaaactgcc 60

tatctgcgac attacgttag cccattcaca atgtgcggac acaagtacga tgaaaataac 120

attttattgc ccacactgtg gtccactaag gagctaccta atggataata aacttatagc 180

gcttactgct aactatgctc cttggaaaac cgtggagcct cacgctttac ttgaaaaaca 240

aatgcgaccc ctgtgaagca tcatcaactt ttttacatgg aataaaatga gccattttat 300

aaaacctatc tgcaaccaca aaagtggaat ctctaccatt gcttgttttt ggcagcccca 360

aaacaaaatc catggattaa tcaatgcaag gatactccgg aattggcaat ggagtataca 420

atgcatgagg ctttacctta tactttgtct ttttacatac aatgcaatgt tcacaaaatt 480

tctgcgcatc ctttttcata tgaagccaat aaaaatgctc ttgtaatgtt tctagagtct 540

tttggacccc aaa 553

<210> 5408

<211> 593
<212> DNA
<213> Glycine max

<400> 5408

agcttcttat ccaaggctca tcttggtggt gaagctcctc cttccatggc ttattcctta 60

ctacaaagac tactcagaat gccccgaaat acaaggctaa aaccctatac tactggaatg 120

accaaaatac aaggcccaga cgaaggaaat acctattcta atatttacaa agataagcgg 180

gctcatactt agcccatggg ctcgaaatct accctaaggc tcatgagaac cctagggcct 240

tcccttggat ctctagccca atctacttgg tgtcttctac ccaatgccct tgcggggtag 300

gattgcatca cttcatatta ttctccatgt atatcctcca ttttcttgtg gtttggtgct 360

gtttagagta gattcaaaaa aataaaccga ttaaatctta gatctacact tgttcttgca 420

tttctatggt tcaaattttg tagatctact cttgaatcat gtttttgtgt tgagtttacg 480

ttctatcatt tttcattcat aatattcttg tgctgaacct tagatctaat ttttctttca 540

aatattgatt agaaaaaaaa acacaaaatc taagtgtaat cacttaatcc atg 593

<210> 5409
<211> 580
<212> DNA
<213> Glycine max

<400> 5409

agcttgatga aaaacagtgc ttttctcttt gtcttgtcat gtgttaacat ttttgtgatc 60

taattgaaaa gcctgttatt attattatta ttattaccac ttgtttgtct tttcacaggt 120

ctgtgatttt ggtctgtcac gaatgaagca ccatacatat ttgtcatcca aatcctgtgc 180

tggaacggta acttttcaga acttggatat aagcttttgg aaattctgtt tttactcctt 240

attcaccatt gatataaatt atcaccatag ttggtttcat tgtaggatct acaattttta 300

caataaaaaa aactaaatat atcttttgcc tgcagccgga gtggatggcg ccagaagtct 360

tgagaaatga accagccaat gagaaagaag ttaattctgc gtctgtgtca gcttcatgga 420

aatatgattt tgaagttcgc aatgtgatag ttaaagtttg catgcacgtg tgatgtgtat 480

tagtttggtg tgatcttgtg ggagttaact accacaagaa ttccctggca agggtttgaa 540

cccatgcagg ttgttggagc tgttggattt aaaataaacg 580

<210> 5410
<211> 485
<212> DNA
<213> Glycine max

<400> 5410

ttgagtgaaa cttggtggtt tgtcaagaac aggacgtatt ctctgtgaga caaaccaata 60

taaatttctt gtgtctcatt cttattattt tctcttctac tatttaaact aacccatggt 120

ttgaatttga tcttttgtgt ttgaaaaatt ccgtttgttt tacaaagatt tgaaactatc 180

gtctgatttg ctttgcaaaa gtctgatatt tgttttctta aggcttgctc atctgatgat 240

aactttgtta tttacgaaaa gaatttaaat tttctcaaaa tcccaacctt tttatgatat 300

ttgtctctac acatgtttaa ctctattttg acctgtcatg ggcctaacat gtttctacct 360

ccctaaatgc gtatttcata ataaaaaaat tatatagggc tatttccata tttaaacctt 420

tgagttatat ttatatttaa ataagaatcc atacttttg tccttttaaa tataccttt 480

tttgt 485

<210> 5411
<211> 548
<212> DNA
<213> Glycine max

<400> 5411

agctttgcat accccaagga tccattatta ttttacttgt gaaagagagc catgagggtg 60

ggctcatggg ccactttggg atagaccaga cccttgtctt actcaaagaa aagttttatt 120

ggccccatat gaagaaagat gtccataagc attgcactag gtgtgtggct tgtttacaag 180

ccaagtctag ggtgatgcct catgggctat acacaccctt acctatccca tctgcacctt 240

gggtagacat tagtatggac tttgtccttg ggcttcctag aacccaaaga ggtgtagact 300

ctatctttgt ggtggtggat aggtttagca agatggcaca ctttatacca tgccacaagg 360

tggatgatgc ttaccacatc tcaaaactct ttttcaggga agttgtgaga ctccatggtt 420

tgcctaggac cattgtgtca gatagagatg ctaagttcct taaccacttc tggaaaacct 480

tatgggctaa gttaggaact aaacttttt ctctaccact tgtcatccac aaactgatgg 540

gcaaacag 548

<210> 5412
<211> 565
<212> DNA
<213> Glycine max

<400> 5412

tgcactgccc aaagtggaca accttccaga aaacgttgaa gccaccattg atgtccctta 60

tgatgtcgtt cagtatctca aaaaagccta cgatgatttg gaagaaccct tgacctgttt 120

tctcaaatct tccaaagttg attggcattt ctatgaccca tatatgttac agttaccaaa 180

aaggttcaaa gagaaaacca aatggtgtgg aatagtaagc cccggttggg caccatagtt 240

gaaggtattg agccacaagg cagttggtgg ggttttgact cactctggtt ggacctctgt 300

ggtggaggtt gtttagaatg aaaaacctct agttttgtta atgtttcttg cagaccacgg 360

attgaactcg agggtgttgg aagtgaagaa tatggggtat tcaattccta aggatgaaca 420

agatggatca ttcacgagtg atgcggtcgc taacttaata aggttggtta tggttgtgga 480

aaaaggaagg atttacagag aaaaggttta aaaggtgaag gatttatgtc tgaatattgt 540

tagacaagaa aaatatatta acaaa 565

<210> 5413
<211> 691
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5413

agctttaaaa gttagggtca cttataattt aactcattga tttgccgaga aaactaatga 60

aaaaacgaga gtgtgtaatg attttttttt ttgtcttgta tgaacatcct ttagtaaaat 120

gaacatttct ctctatatga ttaactttgg attttgagtc ataccttatc caaaactaga 180

catacatgac tttttataca ggtaaagttt ataaaatttt gttatctaat aagtataagt 240

tatgcaatag ttttataaat actctataaa aggaaaaaaa atgaaaactt gagtattaat 300

ataaatttat aatccgataa atatatttat gtataaattt ggtttgggtt ggattagatt 360

gaattttaaa atcaaatcca aaatctgatt ttatccaaaa caaatgggtt tattaaattt 420

taatttgttc gactattggt ttatttgatt ttcagttntt tgcttgattt attcataaag 480

ttatttgata aaattagttt atgaacattc ctaagaaaac cgataaagta aagacatcan 540

atgtacaatt aagtctatta actagtaaag tacgcctttg ttgacanatc tacagtgtta 600

aacattcgta gattaatatg tatagnacat tctttgccta ttgattctta atggacatct 660

ctcgtactaa ttttttcagt ttaaggaaaa g 691

<210> 5414
<211> 562
<212> DNA
<213> Glycine max

<400> 5414

agcttcattg gaaagaaact aacttttgg ttttatttaa aaaatttgat aattatatca 60

attataatta tatttctgtc attaattgta tttattaatg gataatattg tttattaaac 120

ttgttatatt acaacatatt taatttggtt ttatttttaa cattgattat tgtatgttat 180

gagtattgag taatgagtaa tggcatttat aagtgaaatt taaattttaa tattatcaga 240

tcatgaatat taagagggcg tgccctggtg caacagtaaa gttgcccttt gtgaccagtt 300

gatttcaggt tctggaaata gccataaata ctatgttttg ttttgcttaa tatcgcttga 360

catattatat taaaaattaa aataaaatgt gttaactatt acaggttcct tggttatatc 420

attaaacctt aaagttgcct tcaccagttt aataaccagt cctattttaa aaccttgcac 480

ttgcttataa tataagggac tgaagtaaga tgctgcttgc catttagtag ataatattta 540

tgactgaaaa ccctaacacg tt 562

<210> 5415
<211> 602
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5415

agcttgcttc tacaatctcc ccctttttga tgatgacttc tttcgaaatc aagaaacaca 60

cacacacatt ttttcctagt cgatcactca ataaatttc cattctcccc ctttgttttt 120

gaatttatgc ttcacttaaa attaagttta ttactcatct gagttcttga tttaatccct 180

atttctctcc ccctttggca tcaacaaaaa gccaaagtgc ataacaagta tgaaacatac 240

aaatacaact aatcattcac acatcaatca tggaaaaata taaactaatc atgaagcaag 300

aaacatgact agatcaaata tatagaaaaa tcacatagtc atataacata attcataatt 360

gttcaaacaa accatgcaaa taaagaaata ctaaattgtt caaatgtcat aataatatag 420

ccaaatacac ggctggaaat caaagtacta gtaatattaa aataagagaa aaactaaaat 480

aatggtggcg acggtggtgg tagatcaaag cttgaacgaa tataagagac atcttcttcg 540

actntggtga ttcttgactc catctcattg aagcgcatgt ccacttgtaa ctccaaagta 600

tg 602

<210> 5416
<211> 540
<212> DNA
<213> Glycine max

<400> 5416

agcttgtagg gttaaagtct cacgattgtc tcgtgctcat gcaacaattg ttagacgtgg 60

ctatacgaga catcttgcca aacaaagtca ggttcacgat aactcgcctg tgctttttct 120

tccatgctat atgtagcaaa gtgatttatc cagtaatgtt tgatgagttg gaaaatgagg 180

ccgcaattat actgtgccag ttggagatgt attttccccc tgctttcttt gacatcatga 240

ttcacttgat tgtgcatctg gtcagagaaa tcaaatgttg tggtcctgtt tatctacggt 300

ggatgtgccc ggttgagcga tacatgaaga tcttaaaagg gtatacaaaa aatctatatc 360

gtccggaagc atctattgtt gagaggtaca ttgcagaaga agccattgaa ttttgtttag 420

aatacttaga aaaggctaaa gctgttgggc ttcctgagtg tcagcatgat gacaaagtgg 480

gggtaagggg tcaagaggac tgcacgtgat cacttcaagt gtagaagatt tgttacaagc 540

<210> 5417
<211> 524
<212> DNA
<213> Glycine max

<400> 5417

aactctgctt tccaccaatc ttcgatctct ttcaggatca gaatagggtt gtttatgacc 60

gggaatcgat tggtgatttg gatccctacg agtatcaact ggtgctacaa tgtgacatac 120

cagactcttt aaatatgtct aagcgcatac ttccttagtc taaaactgac taaagaaatg 180

tacttttagt tgagcaatgt atccttggtc atttcttatg aagactatat catctatata 240

gaccaccgag taagaacatc tactctatga cgtatgacaa taaaaaactg aatggactgc 300

ttcacttcgg tatatcccaa aagcctgaac agctgagctg aattttccac accaagcacg 360

tggggattgt ttgagtccat aaagagacct ccaaaatctg caaaccaagc tatactcccc 420

ctgagcaaca aatcccgggg ttgctacata taaatcggct attctaaatt cacatgtaga 480

aatgcatttt taatatccaa ctgatacagc ggctaaagac agat 524

<210> 5418
<211> 521
<212> DNA
<213> Glycine max

<400> 5418

agcttttatt taaaataatt ccatacctct ttatctttat caaaaataaa aactatctca 60

tatctgttat tttaagaagc attctaatat aggacaaaga taattcataa ttagccgcat 120

gatcacatga tctgatccta ttatgtaaca atagaatatt attgttattt tatggacaac 180

tttgacattt ataaaataat actcccttgg cagtattaat tatattcttg gtgctagcga 240

aaaatataat aatattccac tagaatattt atgtggttag atgaaattct gtaatttaat 300

tatcaaataa attatttttgt tttgcaaaga ttataacact catttgtatg tgacctcata 360

tgttcaatac tacacggata atagtacatt aatcatcatt aatttactag tcaaggtgag 420

catctaacaa cactccttaa cgtccggatg gtatgaagta acatcttgta cttttcaaga 480

accaatgaaa gaataatata acgttttctt ccatcattta t 521

<210> 5419
<211> 570
<212> DNA
<213> Glycine max

<400> 5419

gacacttgaa actcagcttc caaccaatct tcgatatctt tcaggatcag aataaggctc 60

cccatgattg ggtagcaatt tttgatttgg atccatagga gtatcaattg gtctacaatc 120

tgacatacca gtttctttaa gtatgtctaa cgcatacttc cttagtctaa aaatgactaa 180

ataaatgttc ttatagttga gcaatttttc cttggtcatt tcttatgatg actatatcat 240

ctatatagac caccaagtaa aaacatctac tcgatgaggt atgacaataa aaaactgaat 300

ggtctgcttc acttcgtttt atcccaaaag cctgaacaac tgagctgaat tttccaaacc 360

aagcacgtgg ggattgtttg agtccataaa gagacctcca aaatttgcaa accaagctag 420

actccccctg agcaacaaat cccggtggtt gctccatata aatctcctat tctaattccc 480

catgtacaga tgcattttta atatccaact gatacagtgg ctaatgacag atggcagcta 540

tggcaagaaa gagtcaaaca aaagtaattt 570

<210> 5420
<211> 548
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5420

agcttgtcac ttgatgtcaa ccagtctgct acttgttctc ttgtcatctt ccattatatt 60

tagcaatttg gaaatttatt gcttttacac caagtgatgt ttcatagttt agttattaac 120

atctacgatc aaactttatg gttagcataa actggaacgc tgaacaacag taggtgttgg 180

ctttgggttc atgctttctg atagaacaag tactttgaag acatgtttta ataatatttt 240

tcataatttt gaaactgttt tatttaagct tcagcagttg ttgcttgcta gtactcatgc 300

tatgttggtt actctctagt ctacttacta ctaatgttgg agctttttcc catctatgct 360

ctctatatcc agtatttgaa gntaagagct ctttaaaggc aatcctatac acattacttc 420

tatgaagcaa ctgtcggagc tggtctttca attggtagca ctctacgtgg cctccttgaa 480

actggagaca aaatattaca aatcgaaggc atctttaggg ttgctttgat ggggtatatc 540

tcttttt 548

<210> 5421
<211> 619
<212> DNA
<213> Glycine max

<400> 5421

agcttgcggt aaagtaataa caaaactaga cattttcaat aactcacaat acaaagcttt 60

gtttgattct accaagagaa ataatcaagg atgtgcttaa aagacccacg tcaggaatgc 120

tggacctctt tctacacacc aatctccctg tggcctcact gtaatgggtt agcacagaaa 180

atatactgtc catggcagta acagcacttc gcttctcatc atcactcgcc tcacacggct 240

cttctctctc cacttctgca tcccacaaag ctaaaaaatc agtagaaccc aaacactagg 300

acaattactg ggagaccaaa aggaactatt acaattctgc atcaaatatc aagtttaaaa 360

tacattttaa ctttttttct ttatttagca taacctaaca tgatcaaaaa gcacatgtat 420

ctacgttttg tcctaaaatt atttttaatt atgcgactaa tttaattatt atggttggtg 480

aagcaacgct tgagtacgaa gcactcactt gacatgcatg aataaggaaa gaaaaggaag 540

aaaaaaaaaa ctaaaccaag aaataaacct ctgacatcag gttcgagcac ttgctccaat 600

gaacaaacgc gatcaatct 619

<210> 5422
<211> 598
<212> DNA
<213> Glycine max

<400> 5422

agcttgcttc tacacttaag tgtttggggt gattatagag aaaatgttgg ggggagttaa 60

aacaaaatgg gcttttcaaa taaaaatccg acccacttta agtgactcag tacaaaaaca 120

ttgcatttca ttaagcttgc gtttagtgat cacaatccat atgttggatg catgtgtata 180

gtgcacaaga cttactaagc tcattggacg atagggcctt tggatgcata tcaatgtgtt 240

gagaccttcc acataaattt gaaacttcat tccacaagaa gcatgccaag caaactctta 300

gcgagattaa cctatcctca gtaaagggtt ttgtaaataa ataaacaagt tgatctcctg 360

tagatacaaa atgtaattcc atagtaccct tctaagtgtg atcccttatg aaatggtgtt 420

ttatttctat atgtttggct catgaatgca tgataggatt tttagaaaga tcaatagcaa 480

caatattatc acaaaggata gtaatgttac tctcaaatag gttatagtcg gcaagctgat 540

gttaatccac aggagttgaa aacaaagaca tgcaggtgat atatactcta tttatgct 598

<210> 5423
<211> 514
<212> DNA
<213> Glycine max

<400> 5423

tgcatgattt acattctctc cctttctcaa gaaaattctt atttcttctt gacatcatca 60

aaatcttcat gatatacatt ttctgtatac acacgcatta aaaactcttt ctctttgtat 120

caacacggtt tatataaaaa ctctattcct gttcaaagat ttcttttccg tttttcaaca 180

aacactcgtg gtttatacaa aaatttattt atatacactc attactcaca cacaagaatt 240

tctttttaca cattattttc acacacaaaa tgtctccata cacttttttac atataaaaac 300

tcttttcttt tctttatata tagacatgac atttgttcac aacgcctctt tctttttttct 360

attcttagcg ttatcatgat tattttgttg ggtttatttt tacgacgacg ttcctaaagg 420

agaactctac aaggtttcgg aattctcaca aacattatct acgataacta acacaacagt 480

ccacacaaaa tgtatgctca aaacaaaata tgat 514

<210> 5424
<211> 609
<212> DNA
<213> Glycine max

<400> 5424

gcatgcaagc ttcgaacgat catcgcttca ttcttgtttc gatagattat ttcaccaaat 60

gggtagaagc ggcttcttat accaatgtca tgaagagtgt ggtggtcaga ttcataaaga 120

aggaacttat ttgttgatac ggactcccta ggaagatcat tactgacaat ggcaccaatc 180

ttaataacaa aatgatgcaa gaaatgtgcg gggatttcaa gatccagcat cataactcca 240

ccccctatcg gccaaagatg aatggggttg tggaggctgc aaataaaaat atttagaaga 300

ttattcagaa gatgacagtg tcatacaaag attggcatga gatgttccct tttgccctgc 360

atggatatca aacctcggta cgaacttcta ctggggcaac gccgtattcc ttggtttatg 420

ggatggaagc ggcgctccca tttgaggtag aggtcccttc ccagaagata ctagcggaat 480

tgggcctaaa agaatcagag tgggctcaaa catgctacga ccaactcaac cttattgaaa 540

ggaagcgttt gacagccgtg agccatgggc gccagtatta acaaaggata aagaacgcgt 600

tcgacaaga 609

<210> 5425
<211> 508
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5425

agctttgagc aaattcaaac gacaataact ctttactcgg atgtctgatt gagtcctgta 60

atatatcgag acgctcgaaa tggaataccg aagctcagag caaatttaaa cgacaataac 120

ctttttactc ggatgtctga ttgagtcccg taatatatcg agatgctcga aattgaatgt 180

tgaagctctg atcaaattga aacgacaata aatttttact cggatgactg attgagtccc 240

gtaatatatc gaaacgctcg aaattgaatg ccgaagctct gagcaaattc aaacgacaat 300

aacttttac tcggatgtct gattgagtcc cgtaatatat cgagacgctc gaaatggaat 360

accgaagcgc tgagcaaatt canacgacaa taacttatta ctcggatgtc tgattgagtc 420

cccgaatata tcgaaaagct cgaaattgaa tgttgaagct ctgagcaaat tcaaacgaca 480

aaaactcttt acttggatgt ctgattga 508

<210> 5426
<211> 510
<212> DNA
<213> Glycine max

<400> 5426

agctttcagc tgtctacttg gatgattctg atccatctag catgtttgat gatgtgctgc 60

tgtgtaagga tggtaagagt ccatctattt tttatgctgg ccgtgaaccg tcaccatcgc 120

agattgctga ctcaggagga tctaatggga agaaaacacg atcgaagaaa ggttccaaca 180

agaggacaag tgcaagcgca acggtggatt tatggacttt gctaactcaa tgtgcacagg 240

ctgtggctag ctttgaccaa aggactgcaa atgaaacact caagcagatt aggcagcact 300

cttcacctta tggcgatgga cttcagcgtt tggctcatta ctttgccgat ggccttgaga 360

aacggttagc tgctgggaca ccaaagttca tttcctttca atcagcatct gccgcagata 420

tgttgaaagc ctacagagtg tatatctcag catcaccatt tctcaagatg tcaaatttct 480

tggctaacag cactattctg aagctagcac 510

<210> 5427
<211> 376
<212> DNA
<213> Glycine max

<400> 5427

ttatatatcg agccgatgta taataattac ttatcaactt atttctctca ttagtgacga 60

gcacagagta tattaaaaag aatgtgttaa acatggtatt ttcaggtgac tattaagtat 120

atggatttga cttgggatgc gtgaacaagc tctcattcaa tggcgaaaaa gctcgtgaac 180

gagtcacctt cccctgtcca cctctggcac tccaaccact gagtgctgta ttggacctgt 240

aaaatgccca ctcactcatg ctggccttgc ctaaaatgat agccccagct tctcttaatc 300

tggaaactac acctgcatct ctaggcacca cagagcccag aagagcaaaa gagcctgcag 360

tggtgttcat cttatc 376

<210> 5428
<211> 561
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5428

agcttttaac tgaatttgca gcgttccaat tgatttttaa atggtgtaat cgattacaac 60

atattggtaa tcggttacca gtgtatctaa acgttgaaat tcaaattcaa ttgtgaagag 120

tcatatcttt tcagaaatgt tttgtgtaat cgattacatg gttatggtaa tcgattacca 180

gtgacaagtt ttgaatgaaa agtcaagaga tgtaactctt ccaatggttt tcaggttttt 240

ctcaacgtta taactcttcc aatggttttc ttgactggac atgaagagtc tataaaagca 300

agaccttgac ttgcatttca ataacttttt ataacaactt tttagaattt cttgaacaac 360

ttttgagaaa tcttgaaacc cttactactt atncttcttc ttcttccttt gccaaaagct 420

ttctaagttt tctggtttcc aaaccttgtt ctttcacaga aaacaaaagn gngctatatc 480

tttttattct ctcctccctt gccaaaagag ttcaacaagg actaatcacc tgaatctttt 540

tttggctctc ttctcttttt c 561

<210> 5429
<211> 440
<212> DNA
<213> Glycine max

<400> 5429

tgaaattgaa caacggaagc tctcgagaaa ttcaaatgct catttcattt cacacggatg 60

tccgattcag atgcataacg tatctagatg ctcaaaattg aaaaacagaa gctctcgaga 120

aattcaaatg gtcataactt ttaacatgga tgtctgattc cgaagcataa catatcgtga 180

cgctcaaaat tgaataagag aagctctcga gaaattcaaa ttgtcataaa ttttcacacg 240

gatgttcgat tcggggataa aatatgttga gatgcttgaa attgagagat aaaagctctt 300

gtgaaattcc aatggtcata acttttcact cggatttccg attcaagaca tttgaaattg 360

accaacctga gctctttaaa aattccaact ggtcgtaact tttcacacgg atgtccgaat 420

ccgggaaata ttatatcgag 440

<210> 5430
<211> 487
<212> DNA
<213> Glycine max

<400> 5430

tcttagtctc acctgatgaa gatgaattcg tggctacttc attctctcct ctaatgacaa 60

tagcatcatt tctggcattg aattgctggg agttggaagc catcttctca attaaatttc 120

tggcttcagc aggggtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180

tctccatgtt actaagtcct tcataaaaat attgggggag aagctgctca taaatctggt 240

ggtgagagca actggcacat agtttcttga atctctccca gtattcatat aattaagctc 300

tctccactga gttgcctaat tcctgaaata tcttttctga tggtcgtggt cctggaagca 360

gggaaatttt tttctaagaa tactctcttg aggtcatccc aactcgtgat ggaccgtgga 420

gcaaggtaat atagccagtc ctttgccact ccctctaaag aatgatgaaa ggcgttcaga 480

aatatgt 487

<210> 5431
<211> 598
<212> DNA
<213> Glycine max

<400> 5431

agctttgagc aaattcaaac gacaataaat ttttactcgg atgtccgatt gagtctcgta 60

atatatcgag aagctcgaaa tggaatacca aagctctgag caaattcaaa cgacaataac 120

tttttactcg gatgtcttat tgagtcccat aatttatcgg aacgctcgaa atagaatacc 180

gaagctttga gcaaattcaa acgacaataa ccttttttact cggaagtcgg attgagtccc 240

gttatatatc cagacgctcg aaattgaatg ttgaagctct gagcaaattc aaacgacaat 300

aacctttta ctcagatgtc ggatagagtc ccgtaatata ttgagacgct cgaaatggaa 360

taccgaagct ctgagcaaat tcaaacgaca ataacttttt actcggatgt gcgattgagt 420

cccgtaatat atcgaaacgc tcgaaattga atgttgaagc tctgagcaaa ttcaaacgac 480

aataaatttt tactcggatg tccgattgag tcccgtaata tatcgagacg ctcgaaatgg 540

ataaccaaag ctctgagcaa atacaaacga caataacttt ttacttggat gtcttatt 598

<210> 5432
<211> 625
<212> DNA
<213> Glycine max

<400> 5432

ttgagccaac tcaaacgata ataacttttt actcggatgt ttgattgagt cccgtaacat 60

atcgagacgc tcgaaattga atgttgaacc tctgagccaa ttcaaacgac aataacttt 120

ttcacggatg tctgattgag tcccgtaaca tattgagacg ctcgaaattg aatgttgaac 180

ctctgagcaa attcaaatga caataacttt ttactcggat gtctgattga gtcccgtaac 240

atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aatacaaacg accataactt 300

tttactcgga tgtctgattg agtcccgtaa catatcgaga cgctcgaaat tgaatgttga 360

agctctgagc caatacaaac gaccataact ttttactcgg atgtctgatt gagtcccgta 420

acatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaatacaaa cgaccataac 480

ttttttctcg gatgtctgat tgagtcccgg aacatatcga gacgctcgaa attgaatgtt 540

gagctctgag ccaactcaaa cgacaaataa cttttactcg gatgtctgat tgagtcccgt 600

aacatatcga gacgctcgaa attga 625

<210> 5433
<211> 557
<212> DNA
<213> Glycine max

<400> 5433

agcttcaaca ttcaatttcg accgtcttga tatgttaagg gactcaatca gacatccgag 60

aaaaaagtta ttgtcgtttg agttggctca gagcttcaac attcaatttc gaccgtctcg 120

atatgttaag ggactcaatc agacatccga gtaaaaagtt atggtccttt gtattggctc 180

agagcttcaa cattcaattt cgagcgtctc gatatgttac gggactcaat cagatatccg 240

agaaaaaagt tatcgtcgtt tgagttggct cagagcttca acattcaatt tcgagcgtct 300

cgatatgtta cgggactcaa tcagacatcc gagtaaaaag ttatggtcct ttgtattggc 360

tcagagcttc aacattcaat ttcgagcgtc tcgatatgtt acgggactca atcagatatc 420

cgagaaaaaa gttatcgtcg tttgagttgg ctcagagatt caacattcaa tttcgagcgt 480

ctcgatatat tacgggactc aatcagacat ccgagtaaaa agttattgtc gtttgatttg 540

ctcagagctc aacattc 557

<210> 5434
<211> 645
<212> DNA
<213> Glycine max

<400> 5434

ttggctgcgc agcagctctg atttcgcgag tatttatagt ttatgacgca ttgtaatcga 60

ttacaggtat gggtaatcga ttacatgccc aataagcctt ctggtaatcg attacaggat 120

gttgtaatcg attacaggct gcctgttcat gtgtaatcga ttacactgga tggtaatcga 180

ttaccagagc ctatcctagg ctagtttcta agagaatatc tatatttatg ctcaaataca 240

tcctatatga ctaattttca ctactaatac actaaattca atcattcaat tactatgtac 300

acaagaaatt ataaattcta tcataaaaac aagaattcaa acaagatcaa acaaaacaat 360

ctacaatcaa aagataaaaa gttaatcaac ctatcaatca accaatcaat caaccaatca 420

attcctattt gtctaaatct cttacatcta aaagacctaa ttctcttcta atagagaaaa 480

acactttctt ggggagaggt ttagtgaaaa tatcagcaag ttgattctta gtatcaacaa 540

attctaatac acaatctccc tttaagacat gatctctaaa aaagggtgtc taatctctaa 600

tatgttagtt cttgaatggt gaactgggtg tttggataga attat 645

<210> 5435
<211> 561
<212> DNA
<213> Glycine max

<400> 5435

agcttgtagc aaattcgaac ggcaataaca ttttactcgg aagtccgatt gagtcccgta 60

atatatcgaa acgctcaaaa tttaaaatcg aaggtcgcag caaattttaa cgacaataac 120

atttcactcg gaactccgat tgagtcccgt aatatatcga gacgctcgaa atttaaaacc 180

gaagctcgca gcaaatgcta acgacaataa catttcactc ggaagtccga ttgagtcccg 240

taatatatcg agacgctcaa aatttaaaac cgaagctcgc agcaaatgct aacgacaata 300

acatttcact cggaagttcg attgagtccc gtaatatatc gagacgctcg aaatttaaaa 360

ccgaagctcg cagcaaatgc taacgacaat aacatttcac tcggaagtcc gattgagtcc 420

cgtaatatat cgagacgctc aaaatttaaa accgaagctc gcagcaaatt ctaacgacaa 480

taacatttca ctcggaagtc cgattgagtc ccgtaatata ttcgagacgc tcgaaattta 540

aaaccaaagc tcgtagcaaa t 561

<210> 5436
<211> 598
<212> DNA
<213> Glycine max

<400> 5436

tttgctcatt tgatgttgtg aagttgttga taatttgcat ttctagatga aataagccat 60

gttctcttgt gtcaggatga ggtctgttag gagaacacaa acctttaaca tcaatcggac 120

tatacctttc tcttcaaatc cagcgatcaa ctgtgtaggc agaaatttgg agaagtatca 180

acttggtggg gtcatatttg gttgcaagaa tagtacttta aaagaatgtc aatcaaaaca 240

actctttggt tagtatttct ttcttttgct ttcttttatt gtaacatttg taatagatta 300

acagtaatta gtatgagttt aaaggattaa tgaatcaatg atttgtgttt taacaggctt 360

accaacaaac cacttttcct atgtgaagaa tattgatcct ggtctgccta tattcttatt 420

caactatagt gacaggaagc tccatggaat atttgaggca tctagcaagg ggaaaatgta 480

catagaccct tatgcatgga ttgatgataa ttcagatttg gatagaacac agtatcctgc 540

acaggtatca cttgttatat cttcttatca actctatctc acaagggtca taatgata 598

<210> 5437
<211> 514
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5437

agcttagaga aatatgtcaa atatcgatct taaagaaaac taacaagaaa gaaaaaaagt 60

taaaagcatt gagcaaaaaa acaaacaata aatttaaaca aaatgccaga aatgtgattg 120

aaaactgaga gaaaagatat aacgtggatt gataagaaga atagcaacaa agtaagacat 180

ttagaaaata gggaaataaa aataaaggaa acaataaagg caaggaatta aataaataat 240

taccattact gggaatgtaa agcttatgac atgtaagaaa gaactgtata tcggcaagta 300

aataaatgga tagaaaataa cttanggtgt gtttggtaga gaggaatgaa aagggatgaa 360

agtgtgagga atgaaaagag atgaaagaga gtgtaaagtg aagttgtttg attgagatga 420

aagagagtgt aaaagagatg aaagatttaa attaaagttg taggcaaata ataaaagtaa 480

ctaaactaga gatggagcac ttattaaaaa atag 514

<210> 5438
<211> 496
<212> DNA
<213> Glycine max

<400> 5438

agctttatag tgatcctttt caaaagcttt gtcttgaaat tgatcactca cactaatcaa 60

gtcattctca agaaattttg tatttcttga ttccacaatc ctagtgctat gtgatggaca 120

ataaaatcta tacccttttgg acttttcagc atatccaatg aaatactcac taatagtcct 180

agggtctagt ttcttctctt gtgggttata aacactcact tcagatgggc atccccaaac 240

acgtatatgt cacaaactca gtttctaacc ttttaacttg aaaggtgtct ttaagacaac 300

cttgattgga actcgattta atgtatacat agtcatcttt aatgcttcaa tccacaagaa 360

ttaaggaggt tttctattac ttctcatact tcttaccatg tccattaaag ttcggtttct 420

tctttttgcc acaccattct gatccggaga accaggcata gtgtactggg caaaaatctc 480

atgtttttga agaaac 496

<210> 5439
<211> 574
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5439

ttctaagcat ttttttgggc cattccagat cctcgagcga atctgacccg tagcctatcg 60

gctcctcctt gcaccggagt cactgataca ccccgtgttt cactgctttc tcctccgccc 120

tcatcacggt tccccacccg ccaccacgta cacatggccc ttacaggttc gagatgacca 180

gcccctcagg cgtccgctgt gtttccttga ctataaagac gacaccgcga ccaccccacc 240

aacacgaatg gtccttaccc aatgggaagg cgagccaccg gaggacacct cgtgggaaaa 300

atggtctgac ctatgccagg cctaccacct tgaggacaag gtggttttcg gggaggacgg 360

tagtgttagc aatgccggca actacaactc cgatagcgag catctccgtc acgacaccaa 420

cccaagacca gtacgtatca ggggagcgcc agcacgtctg cgagattatc acgtgcaata 480

cctaccagga acaaaaggat aggctcgtac atacgataat agcaggtgca tgtacagaat 540

canggaaatg cacacgtgat ctaatacaca cgtg 574

<210> 5440
<211> 441
<212> DNA
<213> Glycine max

<400> 5440

tcaagatgta gttaagaccc ctgacaactt ctgttcgtgt tttaggcttg atagaaacac 60

agatgttaga tataataata tgaggaaggt tgcttctcgt gcagattcca gggacaacta 120

tttatactgt cctagggctg tcgatctaca ggatgaggat ttaaggcatt ttcagcggca 180

ttgggaaaag ggggagcctg tcattgtcag caacgtgctt gcaaaaacat ctggtttaag 240

ctgggaacca cttgtcatgt ggccgtgcat tccgtcagat gactaagacc aagcatgaac 300

aacatttgga tgtgaaagca atcgattgct tacattggtg cgaggtttgc gtaacatctc 360

aatcttgaac tgtgagggat atttgcacaa attccattgc tcacatacat atatgtgaag 420

cttatgttga taatgtttaa t 441

<210> 5441
<211> 655
<212> DNA
<213> Glycine max

<400> 5441

agctttacat tcttccaagt tctaccttct ttacaagatc cttcaattgc tttcttcctt 60

gaagcatgcg caaaccaggg gtattgggtg atgaaacatt aatcacctag aaaaggatat 120

taaaaacatt aaacagaata gattaccaaa catttgtctt acaaatttgt agtaagctgc 180

acagatgctt gattaaaaaa aattggaatc cctatgtcag ttgtttttg ccatccattt 240

ctcacttttc taaaccaggg aattggcaat ggaggtgaca acacccttga aagaaacaca 300

tttgttgaac atcaaggaca acctaaaaac ataatccttc aaattggatg atcaatcata 360

ctactcacat catgttctgg tgaaaggttt gggtgggaaa tttggaggat gtaaaaccgt 420

tcccattgct gagtttccat cctttcattt ctccataatg aacttaaaaa aaatgaccgg 480

tgattttaag ctggcagtaa aggcaatgat cctgggtata aatcttagat ctctttagtc 540

attatacacc acaacacttc tgttccttag taaaccaaca ttttatatag aagatgtatc 600

tttcaatatg ttaacttttg tatgcaatta cacataatac cgataatgaa tgatg 655

<210> 5442
<211> 616
<212> DNA
<213> Glycine max

<400> 5442

tgtattcaag ttcaaaagac ggaaagcata gtgcattgtt ctgtttgaat aattttaaat 60

agtactactt gctttaccac tagtttataa taatggtttt gtatgttgga tatcttttgt 120

tgtttttcac ttttgattgg taagtaatgt ttttcctcct cttggttttg acaaaaagct 180

acactgttcg ttcctttggg attagaagaa atgagaagat tgcatgctat gtcactatca 240

gaggtaacaa ggcgatgcaa cttttggaga gtggtttgca agtgaaggaa tatgaacttc 300

tcaaaaggaa ctttagtgat actggttgct ttggctttgg tgttcatgag catattgatt 360

tgggaatcaa gtaagttgaa gaaatctttg attttttcta ttttttttac tttttcctga 420

ggtaaacatt ttacgacaga cgtgaagttg aagatttgat atatgttgtg gtgtgcacaa 480

tgcatattca ctttatactg cattccactt ttgacttaaa ccaaatgcta actggtgtat 540

taatatagga gtttcaaaat tttctttcgt tgttttggac tttggtgctt atataaattt 600

ttttttttt gatatt 616

<210> 5443
<211> 454

<212> DNA
<213> Glycine max

<400> 5443

agctttaagg actgaaaaca gagaattttt tgttaaaaaa ttcattattc tttctgcaaa 60

aattctttta taaatccttg taaagttaaa aaaaatctca aaataccttg aacatattga 120

gagaaaagga ctaagcactt atttgtatat tcgtctataa gacatttcta cactactaca 180

atttatagat ttaacatcgc aaggttaaca tcggttattc acaaaaccga tgttaacaaa 240

agcacggtga catttttgta aataagtaga cttagttaac atcggttttg gaaaaaccga 300

tgttagtatc tcgttaacat cagtttggga aaaaccgatg ttatcgagtt gatgttaaca 360

ttcgattttt tacctagttg atggtaacat cggttatttt aaaaaaaatg aatgttctat 420

cattatatat taaaaatctg gaattgcaca accc 454

<210> 5444
<211> 439
<212> DNA
<213> Glycine max

<400> 5444

ttgaataccc caaggatcaa ttaggaaatt acttgtgaaa gtattattct catgaggatg 60

ggctcatggg ccactttggg atagacaaga tgtccataag cattgcacta ggtgtgtggc 120

ttgtttacaa gccaagtcta gggtgattcc ttatgggcta tacacaccct tacccatccc 180

ctctgcacct tgggtagaca ttagtatgga ctttgtcctt gggcttccta gaacccaaag 240

aggtgtagac tctatctttg tggtggtgga taggtttagc aagatggcac actttatacc 300

atgccacaag gtatatgatg cttcccacat ctcaaaaatc ttttttaggg aaagtgtgag 360

actccatggt ttgtctagga ccattgtgtc agatagagat gctaagttcc ttagccattt 420

ttggaaaacc ttatgggct 439

<210> 5445
<211> 622
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5445

agctttgtta ctgttgcatc aaacttgtta tttgatcttg aaataactat gtttcctaga 60

catttaatta ccttttgttg attcctgtgc aaacatgttt acttgtgttg ttatcctttc 120

catttacttg gataagactt tgatatttaa ttgttaattt tactaaggat gtcctcctct 180

acaagtgctt atattttgaa actatttcta tgtgatggtt gtgctggaaa tggttttggt 240

aatttatgct taattattat ttagaaggag taagtttgta aattataact ataaattttt 300

ataaaatata tttgtttgta acttactaaa tttttccttt taaagagtaa gtgtatgcta 360

gtaagtgtgt ataatacttg ttaacttaca ctcaattttt caaagaagta agttaacaag 420

ttattattat taaattttct taaagtacgg tcaggtacaa cttattaaat tacaccttca 480

aaataatgat tactaatgta gatggtgtta ttcgttcgta ttttttaact agataatttc 540

attntcagca atattttatt ttacaaatat ttaaattcat tatttaggta aaataaaaaa 600

atttacataa atatcatgaa ct 622

<210> 5446
<211> 586
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5446

agcttgccca gagaatgagt ccacggagga tatgcttacc acctcaaaag actggaaagc 60

agtttctaat gactcctctg ctgcctccac ataaggcata gaggatgggc aactcaccaa 120

gatatcttcc ttgcctgata cgatgaccaa atgtccttgc actacgaatt tcaacttttg 180

gtggagtgta gagggaacaa ctcccactga gtggatccac gggcgcccca acagacagct 240

ttaggggggg ttaatgtcca ttatttggaa ggtgacttga caggtgtgag ggcctatctg 300

tactgggaga tcgatctctc ccctaacctc tcggcgggtg ccgtcgaaag cacgaactac 360

cattgaactt ggctttaagt gggaggcttt gaatggtaat ttgtccaaag tgctcttagg 420

catcacgttt aaactggaac cattatcgat gagcactttg gctacgatat ggtccataca 480

cttgactgat acgtgcaaag ccttattatg ccctctcccc tcggcggnga tttcttcttt 540

ggcgaaagcg agatagtntg tgggcatgat attgttgatc aaccct 586

<210> 5447
<211> 533

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5447

tcttagtctc agatgatgca actgagtttg tagctacctc atgaactcct ctaataacta 60

tggcatcatt tctggcgcta aactgctgaa agttggaagc catcttctca attaaatttc 120

tagcttcagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180

tctccatatt actgagtcct tcataaaaat attggagaag aagctgctct gaaatctgat 240

ggtgagggca actggcgcat agttatttaa attgctccca gtactcatac aggctctctc 300

cactgagttg tctaatacct gagatatcct tcctgatggc tgtggtcctg gaagcaggga 360

aatttttttc taagaatact ctcttaaggt cgtcccagct cgtgatggac cttggagcaa 420

ggtaatacag ccagtccttt gccactccct ctaatgaatg aggaaaagcc ttcagaaata 480

tgtgatcctc ttggacatct ggnggtttca tggtggagca gacaatatga aat 533

<210> 5448
<211> 581
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5448

agctttcata aaaaatgagt gatattttat tatttatttt cacaataaat caaggttata 60

aaaagaactt agcaattgat acatttaaaa aggttgtatg tttcttataa ttaaaagaat 120

aaaatatcat cattggttct tatacaaagg acatttataa tgttttaatt atttttctc 180

tcctttggtt gtatatttca tacactattt ctctaaccag ccaaaagaaa ttctctctca 240

atcatttcaa attgtcttaa ttaatttctt ttatcattta aaaatggtag gactagtatg 300

agaaataaag ttatttttt agtatttaac gtaactacgt atttaaaagt tgagactatt 360

ggttaagctg aaatgatatc atgtcagttg atttatgcac ccgatgatat aatttattct 420

ttttaatcta ccatatttta tctttatctt taaattgaaa ttaaataatn ttttaaaaga 480

atatgtcaac agttaaaaat aaattcatat tacaatttaa attattcatt gagtacaaaa 540

taatttatat attgaaatat atttattatt aaaaaattta a 581

<210> 5449
<211> 609
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5449

agcttgatga ttcgactttc cttttatggc tttaacacat tgagtcagtc atcaaatcac 60

atcaccttca acgtttcatt gtcaatcctc aaattcctct ctgttttctt tctgcagaag 120

aatgtgaagc tggactggtt gccaaaggtt ttaatcaagt taaaggcttt gatttttcag 180

aaacttttttc tccagttgtg aagcctatta ctattaggct tattttaact ctagcaatca 240

caaatcaatg ggtgcttgct cagctagatg caaataatgc ctttcttaat ggcttgctta 300

aatgagactg tctacatgtc tcaactccct ggtttccaac aatcaaatcc ttctctggtc 360

tgtaaactaa ataaagcctt gtatgggttc aaacaagccc caagacaatg gttngagagg 420

ctgcaatctg ctctaactta gtttggtttt gtggctagta agtgtgatcc ctctctcttt 480

gttttcaaga cttcatctca ctgtgtatct tttagtttat gtggatgata tcatccttac 540

tagcaagtcc actcaatttg atcagcacct gacatctaac ctaattcaaa gtttttctta 600

aacaactcg 609

<210> 5450
<211> 450
<212> DNA
<213> Glycine max

<400> 5450

tcccttgttc aattttgagc gtctcaatat attatgcgct tgtttcagac atctgagttg 60

aatgttatgt ccatttgaat ttctcgagag cttccgttgt tcaatgtgga gcgtctcgag 120

ttattatgcg cctgagtcgg accttcgagt gaaaagttat gaccatttga attgctcaag 180

agctgccatt gaccaatttc tgagcgtctc tatatattat gcgcctgacc cggacctgcg 240

tgtgaaaagt tatgaccatt tgaattgctc aagagctgac attgttctat ttacagcgtc 300

tcgatgtata atgcgcctga atcggacctc cgagtgtaaa gttgtgacca tttgaatttc 360

tcgataggtt tcattgctca gtttcgagcg tctagatata ttatgcgcct gaatctgacc 420

tccgtgtgaa aagttatgac catttgaatt 450

<210> 5451
<211> 509
<212> DNA
<213> Glycine max

<400> 5451

agctttcatt gttcaatttc gagcatcttg ttatattatg cgcctgaatc ggaccttcga 60

gttgaaagtt atgaccattt gaatttcacg agagcttccg tggttcaatt tcaagcgtat 120

cgatatatta tgcgcctgaa tcggacctcc gagtgaaaag ttatgaccat ttgaatttct 180

cgagagcttt cgttgttcaa tatcgagcgt ctcgatatag tatgcgcctg aatcggacct 240

ctgagtgaaa agtaatgacc atttgaattg ctcaagagct ttcattgttc aatttcgagc 300

gtcttgatat attacgcgcc tgaatcggac ctcctagttg aaagatatga ccatttcaat 360

ttctcgagag ctttcgttgt tcaatatcga gcgtctcgat atattatgcg cctgaatcgg 420

acctctgagt gaaaagtaat gaccatttga atttctcgag agcttccgat ggtcaatttc 480

gagcgtctcg atatattatg cgcctgaat 509

<210> 5452
<211> 589
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5452

ttaacagcat agccttgtaa taggacttcc aaagctgtca tatcaagatg attctctctg 60

tgaagcttgc tagaaaggga aacaagtaaa aagttctttc aaagtcaaaa atgttgtttc 120

cacttattgg ccgttagagc tcctccacct tgacctattt ggaccaacca atactacatc 180

cctcactgga catagacatg gtctagtcat aatgaatgat tacaccagat ggacatgggt 240

catgttccta acccacaagg atgaatcttt tgatgccttc tataaatttt ataaaagaat 300

tcaaaattaa aaagtttttt tatatttgta tctcttcaat cagaaacgac cataggggag 360

agtttgaaaa taatctttat tgaaaacttt tatgaagaga atgatattca ccataactat 420

tccactccaa gaacaccaca acaaaatgga gttattgaga aaaaaaatag acctcttcaa 480

taaatggcta gaaccatgct taacgactac tctaccccta aacgcttcta ggctgaagca 540

atanacatta cctattacat atagaaaaaa tttatatatg tcaatctta 589

<210> 5453
<211> 463
<212> DNA
<213> Glycine max

<400> 5453

agcttgcatt gttaattgta gtatttgtgt ttcttgcttt tctcattgaa attcatgtgt 60

ttcatcatat tgggtgctaa gatattgttt actttagggg taggccttgg ccagattagt 120

agaagaaata gctcaatgtg gtattccaga aggttcaagg aagatcaatg gaaagtacat 180

tcattctcac cttgttgcta gattagaagg tatattggta tttgctctaa ctattactca 240

cgattagagc ctaccctata tgattaacaa gagtacttcc tagttctgga taactatgtg 300

ttaatgtttg tgtggaatat gctaataaag cttctcaaca atgtcttttt tttccaactt 360

tgccctattt gtgcccttat cagtgcaaat gcattgtttt ttcctacata gttgtaaatg 420

aacaactgaa ggaaaaaata taggatgtcg gtacgacata atc 463

<210> 5454
<211> 562
<212> DNA
<213> Glycine max

<400> 5454

taagctcctt caactgcaca aggctcttaa tatttgaaga gtatccttgt ggaaccttca 60

cccgacgaaa acttatcttc tccttcttgg acaaagtatg gcaggctggg ggcaagtaaa 120

ttttcttccc atcagacctt ggatgcaact gtgatcttat acccatatta gctagatctt 180

gacgggtatt caagccatcc ttcgtcttgc cttgaatgtt aaggagcgcc ccaatcacac 240

tatcacaaac atttttctcc acatgcataa catcaataca atgtctaacg tcaagatcac 300

accagtacgg aagatcaaag aaaatggacc tcttcttcca tatgcaactt tgacttttat 360

ccttcttttg ggtcttccca aatacagtat tcaggtgttc aacccgctga tatacctgct 420

caccagtcaa cggtatcggt gcaatatcat gctcttgact tccattaaaa agcttttctc 480

agtcgtctat aaggatgatt gggtgttaga aagcggtgat gcctactgta gaactatttt 540

tctccatgtt taagttgtat gt 562

<210> 5455
<211> 487
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5455

agcttcatat ttgaatacaa gaatgtgctt tcttgctctt ctcacatcct ttgtgccttt 60

atgagtgact tcaagcattt ttcatatttc ctttacactt ttccaccttg tagtatgaaa 120

gaattcatca gaagataaac cagaagttaa aatgttttta gctttttat catcttgccc 180

ttttcttttc tcatcatctt tcatctcttc ccatttttta ggtaccaatt caccatttac 240

ttctttagtt ggtgtaaaag tacctttaac aatagcattc catgcatcgg ggtcaattga 300

ctgaataaag atttccattc tcttttgcca aaaagaaaaa tgttccgcct caaacaaagg 360

atgtcgattt aaagatgcac cctctttgaa aatgatttgt tttgagccca ctnttagaaa 420

anttgtgatc ttgagtaact tacaatatgt agctctgata ccaattgaaa aagatgatgg 480

aactcac 487

<210> 5456
<211> 261
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5456

ctcggatgtc tgatcgagcc ctgttatata tcaagacgct cgatatngag aatggaagca 60

ctaagaatag tcaaacgaca ataacctttg actcggatgt ccgattgagt cccgtaggat 120

atcgagacgc tcgtaattga naacggaagc tctgagaana atcaaacgac aataactntt 180

aactcggatg tccgatcgag ccctgtaata tatcgagacg ctcgaaagtg aaaacggaag 240

ctctaagaat agtcaaacga c 261

<210> 5457
<211> 334
<212> DNA
<213> Glycine max

<400> 5457

ctcgtcttct tctatagtcc agtcttcttc tggcttcaat tcttcagtgg gctatccttc 60

tgtgtccagc atcttgtgat gttcccagac tttgatgaca gctctacagg ttctgatatc 120

caaagatttg aggaaggcca ccattcttgc tgtacaatat atatagttgc ttccatcgag 180

aattggtgga ctgatcactg gaccgccttc tttcttcatg ttcatcagaa tttatctgcc 240

tagatctcac tctgtgattt cgagtgttgg ctctgatacc aattgaaatt ctgataccag 300

cggacagatg tcgtaccgga tgtcacgaca tcac 334

<210> 5458
<211> 212
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5458

acatgcacag tggccaaaga tgcatgggag atcctgaaaa ccactcatga aggaacctcc 60

aaagtgaaga tgtccacatg gcaactatng gctaccaaat tccaaaatct gaagatgaat 120

gaggaagagt gtattcatga cttccacatg aacattcttg aaattgccaa tgctagcact 180

ggcttgggag aaagaatgat agatgaaaag ct 212

<210> 5459
<211> 350
<212> DNA
<213> Glycine max

<400> 5459

cgcatagtat atcaagatgc gtcgaaataa acatcaaagt gcaaggcaaa ttcaaacggt 60

cataactttc gactcggaag ttcgattcag gtaaataata tatcgagtcg ctcgataatt 120

aaacaacgga aagtcacaag acatttaaat gggtgtaact tttcacctgg atgcccgatt 180

caggcgcata gtatatcgag atgctagaaa ttaaacatca gagtgcaagg cagaatcaaa 240

cggcccataa ctttgagtcg gatgtccgat tcaggccaat aatatatcga gtcgctcgaa 300

aatgaacaac ggaagctctc agctatctca tatggcataa cttttcactc 350

<210> 5460
<211> 295
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5460

gtgtctcgat atattatgct cttgaatcgg acctccgagt gaaaagttat gaccatatga 60

atgtctcgag agctagctct gttcactttc gagcgtctcg atatattatg cgcatgagtc 120

tcgaccccga gtganaagat atgtccattt gaatntctcg agagcttccg ttgttcaatg 180

tttagagtct cgatatatta tgcgcatgaa tctgacatnt gagttaatag ttatgaccag 240

gtgaattgtt tgagagctat cgatgtcaat tttgagcgtt cgattattat gcgcg 295

<210> 5461
<211> 298
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5461

ctgcagctct tctgttctcc ccattgaaac aatnnttttt aatatacctc attcaaaggt 60

gcttccaatg tactaaaatc cttcacaaat cgcctataaa aacttgctag gccatgaaaa 120

cttctcacct cggtcacact tttaggtgag gccactcttg gatagcctta acctttttctt 180

catncaactn gtacccccttg gaagtcacta caaaaccaag aaacacaaca tggtctttca 240

aaaataatgc atntttcaag gttagcatac aatngttccc ttctaagcac acacaaca 298

<210> 5462
<211> 154
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5462

cagtttcgag cctctcgaaa tattatgcgc ctgaatcgga catccgtgtg anaagttatg 60

accatntgaa tntctcgaga gcttccgatg tttaatttcg agcgactcga tatattatga 120

gcctgaatcg gagcctcgtg tggaaagtta tgac 154

<210> 5463
<211> 327
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5463

tttggaccca tgagctaagt atgagcccac ttatctttgt acatattaga ttanggtttc 60

attatttctg ggccttgtat ttagggcttc ataatgtatg gagggtaccc tagtaatgta 120

ngatgtttca gcccttgtat ttagggcacc tagaactagt tttgtattaa ggatagtttt 180

gtaatttcac atgcattaag tgtgaatata tgatgtcctt catgctttac atgtctcatg 240

acacctaagc acacttagtg gagaatcttg gactcgatct tggattagtg ggctgaacca 300

tagctganat tcactaatcg taattag 327

<210> 5464
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5464

acaagttgtc ccacagagaa tgcaaaatat gcggcattga agtacgtnga gagcttcttt 60

aactgctttg ggtcgttttg ctcgaactgg tctgctncat aagcaagcat gtttggcttc 120

acacacccac tccctaatgc caccaagtag agtgctacat agaatatcat ggccttcatg 180

ctcttggctt ctacgcactg ttctccatca gtcacattgc atggangtgg cttcaattga 240

ggaacatgag cttggactga tagcagtatg aaaccgtgga atcgtattat atatacatga 300

ctaanggctc tcgatcaatg gcaataatat attntgttag agagagagag agagagagaa 360

gagat 365

<210> 5465
<211> 483
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5465

ttgaattcta gtccccctta tagactctgt gaagatgttn gctagttggt cattagaacc 60

tatcaaattt gtaatgagtt ctcttggaaa aacctttcc tgaatgaaat gacnaataaa 120

tttaatatgc atagttcatc catgaaacat catattggtg gctatatgaa gagctntgct 180

tgattgtcac aacataattt cacctattgg atgtctctaa acttcaattc ttgaaggaga 240

tatttaatcc aaacgtgtgc acaagtagct gtacacatat ncttatactc tacttctgca 300

cggtgcagta acattgtgct tttactcttc aagagacata ttcctccata ggtcacaatc 360

cccaaaacac attgtcatgg cgactgccca ctatatacaa atcttgcttg aggaatcctg 420

cctgtgctnt atttatatac ttaaggcgtg ttaagatcta tgatccaaaa tcatctatat 480

ata 483

<210> 5466
<211> 251
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5466

tctctctaac cttactctng aatntacatc tcatagtggt gattacttca gagactaaga 60

gaacgttgtc aagaatagaa cgatcttcaa cataagttta ttggtattgg gaaatgcatt 120

tggtaaggat gtgtttaagc ccattggcta ggaccttgaa aatgaattta tagataacat 180

tgcaaaggaa taagagccca aagtttttca tagtagtggg actacatttt ttggggataa 240

ggacaatgga t 251

<210> 5467
<211> 266
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5467

atatctcacc atgaccaggc gtgaaatatc tntctgacag ttagtttctt aattctcctt 60

gtgtgagtca ttggcttgta gtntgtagaa tccttagata catcanaggg tcacctagaa 120

agggacgttg ttacactgac aggggacata gtaacattat tggatactca catgaagact 180

cggctggaga tgcangagat agacaatcca cttcaagcaa ttgtattttt gtgggttgaa 240

atcttatctc atggaagtgt aaaaag 266

<210> 5468
<211> 310
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5468

ccttcacccg acgaagacac tgacaaagac ttatctcttc cttcttggac anagtatggc 60

aggctggggg caagtaaatt atcttcccat cagaccttgg atgcaactga gatcgtatac 120

ccatatcagc tagatcttga caggtattca agccatcctt cgtcttgcct tgaatgttaa 180

ggagcgtccc aatcacactg tcacaaacat tnttctccac atgcataaca tcaatacaat 240

gtctaacgtc aagaacacac cagtacggaa gatcagagag natggacctc ttcttacata 300

tgcaactctg 310

<210> 5469
<211> 523
<212> DNA
<213> Glycine max

<400> 5469

agcttaacaa cacttaaggt tcaatgcccc ttctaaacta tgtgttcaac taagcaatgc 60

attaaagaca tgttaattta attgaataat aaatgcgagt ctttattagg aggtgtgatt 120

aattcattta atataataaa tgggcggatt attcagggag tagttgaaga tttgatttat 180

tctagactat tacttttttgt tgaacaactg acctcaataa cttaagaggg ggtgaattaa 240

ttaaatttta aaattttccc gctaacaaat tttaaccccc ttttaaatga tacatgatag 300

actcagaatg cagaagaaga agaagaaaca atcaatttaa taatgttctt ttaaatgcgc 360

aagacaaagt aaactgcaat aaaataactg agataaggga agagagaatt gcaaaatcat 420

tttatactgg tttggccact ccccgtgcct acgtccagtc cttaaacaac ccacttgaga 480

ttttcactat ctttgtaaac tctgtacaac ttctgaacac atc 523

<210> 5470
<211> 510
<212> DNA
<213> Glycine max

<400> 5470

agcttgaaat tcagaaccga agctctgagc aaaatcaaat gacaataact ttttactcgg 60

atggccgatt gtgtcgcgta gtgtatcgag acgcttgaaa ttcagaacaa aagctctgag 120

caaaatcaaa caacaataac tttttacacg gatgtccgaa tgaatgccgt aatatatcga 180

gacgctcgat cttgaaaacg gaagctctga gcaaattcaa aagacaataa ctttttacta 240

ggatgtctga ttgagtcccg tagtatatcg agatgctcga cattcataac agaagctctg 300

agcaaaatga aacgacaaca acttttttact cggatgtctg attgtgtccc gtagtatatc 360

gagactctcg aaattcagaa cagacgctct gagcaaaatc aaacgacaat aacgttgtac 420

tcggatggtc cgatggatcc cgtagtgtat cgagacgctt gaaattcaga acagaagctc 480

tgagcagaat caaacgacaa taacttttta 510

<210> 5471
<211> 638
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5471

taagggacgt gaggtcttga aggaactacc tctttaggtt gtaaaactct atgaggagat 60

agaaaccttg agagataaac taggaaaatt tattggtggt catgaagccc ttaacaaaat 120

tattaaggtg caaagaaacc ctaaagacaa atttagccat gctttcaaag gcaaaaagat 180

tgtacatggt gaagaagtta ttgtttgcta tttttgtgga aaaatgggtc acaaaactca 240

taagtgcaag gatctcccta caaagggaaa cccatcaaag ggtttgtcca gtgcttacca 300

acatccacaa gcaaacaagg aaaaaggacc caaaaagatt tgggtagcta agaataaaat 360

aattcctatt acagacctnc ttgatagtag gaaagaaaca ccattgatgg tacctggaca 420

gtggctgctc gcaacacatg atagtcaaaa agtctatgtt ctgatcccta agccctatgt 480

ctagtggggt tgccactttt ggagggaata aaaaaggtcc gataactggt gtaggtaaaa 540

gttgcattcc tccctatcct tctatagata antgtttact ttgttaaagg gtgaagcata 600

atttgctaag cataaatcaa ttatgtgaca gtggatat 638

<210> 5472
<211> 634
<212> DNA
<213> Glycine max

<400> 5472

agcttcctgt cgccagtgat ccacacatta taccaatgat ctcttaagtt gataccatta 60

ggatattcaa acaataccct ctcataagtt gataccacat caccatcata ttacataata 120

gcaacgactc cctccatctt caacccaata tggtgaaata tcaaaacaat gcaatgaatc 180

agaccacttg tatttattag catcttatat tgtgagtcaa ttatcaacaa caaccaagat 240

tgcacgacaa aatataagat tcaaattaca ttgagctcta caaggacatt gttggcttgt 300

cagactgtca taaatatgat tgctaaatca caatataaaa cattaagttt tacttttaa 360

aaattaaaac acttaaaaaa acacaatgaa atcataattc ctttgtatta atcaatacaa 420

cggaatcatg atttcattcc ctagtcaggg taaaaataaa ataaccaaac aaaatcatac 480

tcttgttaca aatttgtgaa tgttatcaat aatacaacaa aatcatgatt ccattatgtt 540

atttaacaat ataaaaaaat aacaataaaa atatgattat ggtgtacaag catttaacaa 600

aaacatattt tcattattaa ttttttcac ccca 634

<210> 5473
<211> 559
<212> DNA
<213> Glycine max

<400> 5473

tttggcacaa agaagaagaa gttcatagag attgccggct cgtaaaggat tgtattggat 60

tgattggatt tgagaaagat tgattagaaa agtgtatatt gaaaagcaaa tcaaagcctt 120

gctgttatag actcttcatg tatggccaaa aggaccattt acagaaggta tcacttttag 180

aaaaacttaa aacaaatttg aaaaagtcac aaacctttg aagagttaca tcttttgatt 240

tattcagaaa caatcactgg taatcgatta ccaaattagt gtaatcgatt acacaaggct 300

tttatgcgaa aggatgtgac tcttcacatt tgaatttgaa tttcaacgtt caagggcact 360

agtaatcgat tacgaaaaca ttgtaatcga ttacaacttt ttgaaattaa ttggaatgtt 420

gtaaattcag tttgaaaact ttttgaaatc cattttgcta ctggtaatca attacaataa 480

tctggtaatc gattaccaaa gagtaaaaac tatttggtaa acatgttttg agaaaaatcc 540

atgtgctact cagtttttt 559

<210> 5474
<211> 507
<212> DNA
<213> Glycine max

<400> 5474

ttaacattta ttttacaggt attcataatg ttgatatttt tattcaagaa tttgatctac 60

ttttaacccc agttgatgag atataagatg aatctaactg tagttctttt atcactgttt 120

ttcaataaac tttgcctcaa aaaataaaat acaaggatca cctaattaca agctttctaa 180

attctaatta ctgattttta ggtttattta ccttttttta atctaaatta aaaatgttaa 240

tctctatttt ttataattaa aaaaactttg agatcccttt cactgatgtt atctatgact 300

ctatgtgttg atgctatcac ttggcaaagg aagaaattaa gagtaatcga atacacagaa 360

gagtttatga ggtgctatct aaggctgcta gctcaaatcc aaaacacgct ggcttgaatg 420

aacgcgagct ctattttgtc ttcttttgta agccaaatag ttttcaagag atgaaaagag 480

cttggcatgt gtctgatgtg cactttg 507

<210> 5475
<211> 489
<212> DNA
<213> Glycine max

<400> 5475

agctttaaca acaattccct tctttttctt atcattttct tcgtgttgat ttaatctcaa 60

cagttccatt tcgtgttcct gtaactttcc aaatagtgta gcaagagaca tgttagttaa 120

atctcgtgac tcagtaatgg ctgttacctt aggtgtccat tctctgctta aacatctcaa 180

tactttattt atgagatctt catttggaaa atttttccct aaagatgcaa gatgatttat 240

tatatgtgta aacctttttt tgcatgtctt gtatactttc atttgaattc attctaaata 300

attcatactc atgagttaat gtatttattc tagatctttt cacatctgtt gcgccctcat 360

gtgttacttg tagggtatcc cacatttttt ttgcactttt acaatttgat accctaaagt 420

actcatccat tcctaaggca gatgtaatta tatttttgac ttttaagttt gattgcacta 480

atctctttt 489

<210> 5476
<211> 588
<212> DNA
<213> Glycine max

<400> 5476

agcttatgct gcaaatattt acaatagacc tcctcaacct cagcagcaaa atcaaccaca 60

gcagaacaat tatgacctct ccagcaacag atacaaccct ggatggagga atcaccctaa 120

tctcagatgg tctagccctc agcaacaaca atagcagcct gctcctttct tccaaaatgt 180

tgttggccca agcagaccgt acattcctcc accaatccaa caacagcaac agccccagaa 240

acagccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300

tatgcagaac atgcagtttc aacaagagac cagagcttcc atttagagct tgactaatca 360

gataggacaa ttagctacac aattgaatca acaaaagtcc cagaattctg acaagctacc 420

ttctcaagct gtccaaaatc ccaaaaatgt cagtgccatt tcattgacgt cgggaaagca 480

gtgtcaagga cctcaacccg tagcaccttc ctcatctgca aatgaacctg ccaaacttca 540

ctctacttca aaaaaggtga agacaaaatt tacctacaat ttctgaca 588

<210> 5477
<211> 520
<212> DNA
<213> Glycine max

<400> 5477

agcttgacaa gctagcttgt ttaactaata ttaataataa tgatgataat aataacttta 60

ttttatcaaa tcttatctta tccagatttt attctatcta gattttattt catctcatct 120

catcttatct tatctaaatt ttattttatt tcatttatgg gttgggactt aaaatagatt 180

tgtaagcttt ggggctgagg acttatatat caacacaaag gttttagttt agggagcttt 240

tttcagagag gagaataatt ctaggatgtt agaatttcag tttttattac tgttcatgca 300

cattgttcac gtagaataaa attcattttt tgcaaatcat ctttgatcca tacatttgtt 360

catattatgc tgtttttatt ttctttggat atactttgcg ctttaacgac ttggaatcaa 420

tatgattttg gttatcaatt atttttggat ttgtcattac ttatacgaaa ttttataagt 480

ttctttttta ggtaggattt cactaggtgt taaaataatg 520

<210> 5478
<211> 508
<212> DNA
<213> Glycine max

<400> 5478

tatagaatat ataataaaag aacaatgaca attgaagagt ctatacatgt ttcctttgat 60

gagtctaatg ccattcttcc aaggaaggat tttttagatg atatttcaga ttccttagaa 120

gatacacata ttcatggaaa taactctaaa gaaaaagatg aaggaagcaa tgaagattct 180

caagataatg gggctagagg aaataatgaa cttccaagag aatggaaagc ctcaagagat 240

catcccctcg acaacattat tggtgatata tcaaaagggg taacaactag acattctctt 300

aaagatttat gcaataatat ggcttttgta tctatgattg aacctaaaaa tataaaagaa 360

gccatattag atgataactg gataattacc atgcaagaag aactgaatca atttgaaaga 420

cataatgtgt gaaaactagt acaaaaacct gaaaattatc ctgtcatagg aacaaaaagg 480

gtttttagaa ataaattaga tgaacatg 508

<210> 5479
<211> 433
<212> DNA
<213> Glycine max

<400> 5479

ttagactagc cttgatagga atttggtgac tcactcttgt tgtcattgct cagggcttgt 60

tgtcatcatc tttgaatgta tcaaaactgc ttgaatcaac cttgattcat catcatgaag 120

cttgcttcta caatagatag catggctcat tggtgtagcc atgtgcttag cattttccat 180

gccgaatcta tgaataaact gtttgcggta cttatattga ttgacaaaaa ttctagtctt 240

ggtatgttta atttgtctat caagacaaaa attatatact cgcataatgg acatatcaaa 300

ctgactttgc atgtcatgag agaagtcctt gcacaataat tcatgagtaa atctacaaat 360

aatatcatca cacatatata tgaaccaaga aaacatcatg taatgttctc tttatgaaaa 420

gagtaatatc tac 433

<210> 5480
<211> 544
<212> DNA
<213> Glycine max

<400> 5480

tattacctta taaatgtttg atggatattt cagatatcca ctttggtaat gatactcatt 60

gccgacattg gaggttttgg cttaaccatg ttaatcacca cctttgctgt gaagggcatt 120

aaccgtgtcc atgctgtggg atggatttgt gccattttta acattgcagt gtttgctgct 180

cccttaagca taatggtaca ttctatattc aattattcac ataatataga tcttgcatag 240

tttgatatgc aatctgaaat atgtaaaatc tgtacattaa ttgcagagga gggtcataaa 300

aaccaaaagt gtagagttca tgccattttc attgtcctta tttcttacgc tctgcgccac 360

catgtggttt ttctatggtt tcttcgacaa ggatgacttc attatggtga ggaataacac 420

ttctatatct attactcatt ctactcattt tctcttgaaa gcaaactgat tagtgttttg 480

ttttgtggat tatcagtttc ccatgtgtta agatttattt ttggcatctc tcaaatgatt 540

ttat 544

<210> 5481
<211> 639
<212> DNA
<213> Glycine max

<400> 5481

tagaagaaat ctcaaacgat agatttcaca aaatcttttc taaatctttt aaaatattat 60

tctacttttt cacgtgagat aaggtttttt ataacatcag tttgataatt tttaatgatt 120

ttaaaaaatt gatctgtatt tttatagttt gaaaattatt tttaatcctg tattttgtaa 180

ttaaaataat tttaaaaaat caaaatcaaa attcatacaa aatatgaaat aagcaatgat 240

ttacgaaata tctaacgtat gctggaaaac atcggcgaca gaaaaaatct gaaaaataaa 300

taacaaggat aacatttttt ccccgcaaaa aagcacttta tagtcagatg tagtttcaat 360

attttaaata ataacattct cacatttaaa aataaaataa aaattagaga atctcgtatc 420

ttttcgtagt tatttatcca aatagtttta ctttagaata tataaaataa tcttatagct 480

atttttatac taccctccta tcatatatac atgcatatct aagtatattt attaatttta 540

ataataatct taaaaatcac ttatcaataa ttttataaat taattagtac agggatgttt 600

acattagtaa tttttaatat tagattaaaa ttttaaaaa 639

<210> 5482
<211> 477
<212> DNA
<213> Glycine max

<400> 5482

agctttacag cagatgcccc tttactccat gttcttgaag gatatgttaa caaggaaaca 60

taagtatatt caccaggaaa aaattgtagt ggaaggaaat tgtaatgttg tgattcaaaa 120

gatccttcca cccaagcata aagaccttgg gagtgtaact attccttgtt caattagaga 180

agtcactgtg ggaaaagctc tgattgactt gggagccagc attaatttaa tgtcattctc 240

catgtgcaga aggttgggag agttggagac catgcccact aagatgactt tacaactggg 300

tgaccgctcc attaccagac catatggagt aattaaagat gtgctggtca gagtgaaaca 360

ttttatcttc ccgacagact gtgtggcaat ggatatctgt gaagatactg acattcctgt 420

catattggga aggccattca tgttaactgc aaactgcata tttgatatgg gtagaaa 477

<210> 5483
<211> 434
<212> DNA
<213> Glycine max

<400> 5483

tatcaacatc aaacttggag aaagagttct tggggtcaag acatgagaag caatcaagta 60

taatgttact tccttcacta aagcggcgat ccatctccac acatatttta tcaatagcaa 120

cataaaaaat ctctgcacgg taatgatgaa gattagtgat agtcctccct tctgctcttg 180

aacgaccccg aactggtatt tcgtcatcca tatttggtac tagaatactt ttagcaacac 240

aaaatccttg gacatcggca aaaaaattat tccagccact ctctctcatt gtgcccaacc 300

gagctttgac aacatcaact aattccatgg cattcacaat attaagatct tttctttgca 360

atatatttga aagctcgttt gtgataccaa acaactttaa cattaacctc aaaataaaag 420

caaatttaaa gctc 434

<210> 5484
<211> 489
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5484

cagcttgtat agaaggtgcg ttcctaattt ctctacaatt gcatcacctc tcaatgagct 60

ggtgaaaaat aatgtggcat ttacctaggg tgaaaaacaa gagcaagcct ttgctttgct 120

caaagaaaag cttactaagg cacctgttct aactcttcct gacttttcta aaacttttga 180

gctagaatgt gatgcctctg gagtgggagt tggagctgta ttgttacaag gtgggcaccc 240

tattgcttat tttagtgaaa aacttcatag tgccaccctc aactacccca cctatgataa 300

agagctctat gccttaataa gagccctcca aacttgggaa cattaccttg tttccaagga 360

atttgtcatt catagtgatc atcaatcact taagtacatt agagggcaaa gcaagttaaa 420

caaaaggcat gcaacatggg tagagtacct anagcaattt ccctatgtta ttaaatacaa 480

aaagggaaa 489

<210> 5485
<211> 546
<212> DNA
<213> Glycine max

<400> 5485

caggacctta aaactcagct tcctgggaat atgtctaaga agttgagctt agctctcaca 60

cctctctaat agctaagctc acctccttga gataagaagc tagagcttag ctacacaccc 120

cctataatag ttaagctcac tcttatgccc aaaaacatga aaatacaaaa aagtccctac 180

tacaaagact actaaaaatg ccccgaaata caagactaaa accctatact actagaatgg 240

ccaaaataca aggcccaaac aaaggaaaaa actattctaa tatttacaaa gataagcgag 300

ctcatactta gcccatgagc ttgaaatcta ccctaaggct catgagaacc ctaagacctt 360

cccttggatc tctggcccaa tctacttgga gtcttctatc caatgccctt gcggtgtaag 420

attgcatcat gataaaccaa cttcttaaag catttatgtg agtcaagtgg agttttaaaa 480

tgtttcacaa agaaatgccc aagttatatt ggacaaagaa tatatagagt atctctcaac 540

agaaca 546

<210> 5486
<211> 532
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5486

agcttgtagc ctttatatcc ttgagagtag ccaaggaaca caatagccct aggtgagaat 60

ttgtgtttgc tggatatcan agtggaggca taacataatg ttccaaaagt cctgaaatca 120

gcatagttag gaagtttagc atgtaaaatc acaaatggtg acttggcttt cagaatgggg 180

ctatgggtcc tgttcatcaa gaaaactgca gttttgacac attcacccca aaattttaat 240

ggtaaataag attgaaacag caaggcacga acaacattta aaatatgaag tgtttccttt 300

ctacaacatt gnttttctgt gggcgctcca cacaggaaaa ttggtgtagg acacatttct 360

tcaaaaagaa atctgaaaag gcaagctctt ttgcattgtc agatctgaat cttttgatgg 420

tggttttaaa ttgagtttcc acatatgaaa aaatttgtgg tacaataagg agacaatcag 480

attatttata aaaaagtata tccaatgaac ctacttttat catctactaa ag 532

<210> 5487
<211> 469
<212> DNA
<213> Glycine max

<400> 5487

ttgagaaata tactacccca tgaagttcat caattagttc atcaacagtg ggaataggaa 60

agttatcttt gattgtgatg gcattcaagg ccctgtaatc tgtgcaaaat ctccaagtgc 120

catccttctt cttgacaaga atgattggag gtgaaaaatg gcttctgcta ggggcaataa 180

tcccttcctt gagcatgtca gctatcatta attacttcaa tctgatcctt ccggctgtga 240

ggatacctat atggcttgac ttttactggt ccagcacctt caaccaatgg gattgaatga 300

ttgtgagttc ttctaggggg taatcctgat ggcacatcaa agactgttct ataagtgtaa 360

agtaaacagt tccgcaatgg catgcgtatg ctgcattctt ctcaggtgat taaattgagc 420

ctgttgtcat agagagggta tctcaccatg caaggtgata aattgatta 469

<210> 5488
<211> 503
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5488

agcttgtaat tttcagaaaa acaaatacct attcaaccat atcaacatac taagacaatt 60

caaggtgaaa tcaagagaca tagagagcaa tttaaaatag gttacgtgca ctacacaaca 120

tcattcaatg ctagatccat ctaagatgcc tagatcattc cttataaaga agaacctatc 180

tctagcaagt ggtttagtga atatatttgc tagttgatgc tcactatcaa tgaaatcaat 240

gcaacaatca ccttttgaaa catgatctct aagaaaatga tgtcttatct caatatgttt 300

ggttttagaa tgcatgacaa gatttttggt taaattgatc gcacttgtgt tgtcacattg 360

taagggaatg tgatcaagga ttacattccc ttagaatgca tgacaagagg cctttatgag 420

ttctccattc tctagggaca tccataggag gtatggttga gatctttntg gttagttcat 480

gttctttcac tttggttttt atc 503

<210> 5489
<211> 438
<212> DNA
<213> Glycine max

<400> 5489

tccatttgta tactgcaacc ataataagaa aaaagctttt tgtttcccct cctgtggatg 60

tagccttgat caaggtgaac cacgtaattc tgtgtgtgtt ctttctctat tttcttctct 120

ttcaccttgc tgcaaaactc tgtgtgtatg acatagcttt ctgctgtttt tgttgttgtt 180

gttcttgctt gttcttcatc acttccataa tagataactt tctacctgtt tcatttgtcg 240

atgaggagtt ggataaactg ttttcaactg atttatcatc acgtgcacaa aacaagaaaa 300

ctgagatata caccagaatt ctttccatcc ttaataatgg tgtagttatt ggtgataaga 360

agtttgaatt tctagcattc tcatcaagtc agttgcggga aaactctctc tgaattgttg 420

ctcctacaac aactggat 438

<210> 5490
<211> 630
<212> DNA
<213> Glycine max

<400> 5490

agcttaacaa aaggcatgcg aagtggttgg aattcctaga gcaatttcct tatgttatca 60

aacataaaaa gggaaaaggt aatattgtag ccgatgctct ttctcggcgt catgcattac 120

tttctatgct tgaaacaaaa ttgattggtc ttgaatgttt gaaaagcatg tatgaaaatg 180

atgaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggtttcttta 240

gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300

atttgcttgt ttgtgaagca catgaaggag gtttaatggg gcattttggg gtccaaaaga 360

ctctagaaac attacaagaa cattttttatt ggcctcatat gaaaaaggat gtgcagaaat 420

tttgtgaaca ttgcattgta tgtaaaaagg caaagtctaa ggtaaaacct catggattgt 480

atactccatt gccaattccg gagtattctt ggatgaatta ttcaatgaat tttgtttggg 540

gctgccaaaa acaaccaagg gtaaaaattc catttttgtg gtgctgaaaa ggttttctaa 600

aaagcttaat ttatttcatg taaaaaaaat 630

<210> 5491
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5491

tatcattttt ttccttaaat tttctttctc atttttttctg tcaaatttgt taatttaatc 60

aagttctcca attatttaaa aacattacaa ttaaactaac ggaaataatg gaaaatgata 120

ccatcgtaat agttttaaat aattgacgat tcaattaaat atttttaaac aaacttttta 180

attgaatttt taattataat taaaaaatca attgtatagt taaacttttt tctatcacct 240

tagatatcat atttgtcact cttataatat ttataatatt tatgcagatg cttgagtaat 300

tatgatgttg gttttcaatt aaaattaaaa tttgactaan atatgtttgt gataactgat 360

gaaatctaaa tttgtgggta ttccttaata ttttttcttt gttttgctct atgaggatat 420

cactaataat ttttatttta 440

<210> 5492
<211> 563
<212> DNA
<213> Glycine max

<400> 5492

agcttgcttg aatcaacatt tttcaattga tccaaattaa cttcaggtag tcttttgtca 60

actatgcaca tgataatatc tttctcaaac tcttcttaag ccaaaactga gaactctttg 120

ttattggtct cttctgagat ttcaaagttc ctccttgcac acactatctc tagcaaaaca 180

accataactg taaacatcag attttgaagt tactgaaaga tttgggagcc attctggagc 240

tacataccct ttggttcctc tcatatttaa cacggtttgg tacctgtcat ccttgggagt 300

tatgagcttt acaaggttga aatacgagag tttggcctcg aaatcctagt ccaagagaac 360

attttcaggt tttatgttga catatgcagt tatgacactc ttcatgaata tacatgatag 420

ttgacacccc cttgcgacgt ggtgaggggg cgtggtcgag tcccacatcg aataaaaata 480

gtgccgagat acactatatt agtggggagt aattctcacc ttacaagttg ggtttgtagg 540

attaagctaa actcatgaaa aat 563

<210> 5493
<211> 515
<212> DNA
<213> Glycine max

<400> 5493

agcttcaatt ggagtcttgt ctcttacaga cttagttgga catatgttga gtatgtaaac 60

agcagtgtac actgcttcag tccagaatgt gttaggtagt cccttctcct tgagcatcga 120

tctagctatt tccataactg tgcgattctt tctctcggac actccatttt gttgaggaga 180

atatgcgact ataagttgtc gctctatgcc ttcatcctca caaaatattt caaactcgcg 240

agaggtgtac tctttgccgc gatcacttct tagtactttt atctattttc cactttgatt 300

ttcagcaacg gccttcaact ttttgaatac tccaaagact tctgattttt cttttagaaa 360

atatacccat gttattctaa agaagtcatt attgaagagt atgaagtacc agttgttctc 420

atgtgatggc agccttattg gtccacagac gttcgtatgt atcagctgcc atagatcttt 480

cgctctccat gctccgcttg ttgaaaaagg aaatc 515

<210> 5494
<211> 485
<212> DNA
<213> Glycine max

<400> 5494

cagctttgac atgttggata ttggcaacaa tttctatatg ggcaagctcg acattgaagc 60

agataggaca aaggtaatgg aggaaggccc ctagatgatc tttgatcact acctaacaat 120

tcatacttgg gcccaggatt ttatctccgc ggcgacaaag attgatgaaa ccctagtgtg 180

ggttcgattt cctggccttg acctttttact atgatgaaag cattctcttg gctctggcaa 240

cgaccattgg caatccaatt agtgttaatt caaataccct acacataaga catggaaggg 300

ttgcgagagt ttgtgtgcaa attgatttgg acaaacctgt tgtggggaaa aattggctaa 360

agggtcactg gcatagagta gaatatgaaa gtttatacca cagctgtgcc tcatgtggtc 420

ggaatggtca tttggctcga aactgcccta cttcattaca tgtagacacc catcattctt 480

cttcg 485

<210> 5495
<211> 527
<212> DNA
<213> Glycine max

<400> 5495

agctttttgg tggggagcaa taaggtgcct gttgatgttc tccaatatgc tgatgatacg 60

atatttttcg gagaagcatc tatggcaaat gtcaaaactg tgaaggttat tctcaggagt 120

tttgagctgg tttctggatt gagaattaat tttgctaaaa gcaaatttgg agttgttggt 180

caatctgagg agtggtgtct tcatgctgca aactatctta actgtgcttt ggttcaattt 240

cctttatgtt atttaggaat tctgattgtt gtcaatccca aaagaagggt ggtgtgggat 300

cctgtaatta ggaaatttga agataggctg aataggtgga ataagagaaa catatccatg 360

gctggcagac tcactcttat taaggctgtc ttaacagcac tacctttgtt ttacttaact 420

tttttcaggg cccctaaaac agtcattaat aaggttatct tccattcaaa gacaattttt 480

gtggggaggt taaccagaag agaagaagat tgcctgggta tcttgga 527

<210> 5496
<211> 345
<212> DNA
<213> Glycine max

<400> 5496

gctgcatgct gccatcttat gctgcgaaca tgtacaattt actttctcaa cctctgcagc 60

ataatctacc tcagtgcaac tattatgact ctctccagca acagatactg ccctggatgg 120

aggaatcatc ctaccctgcg agggaccctc tatccactgc atcaacgggt gtctgttact 180

tacatacaaa atgctggagg cccaagctta ccatacattc cttcaccgaa acagcgctac 240

aacaacccca taaacaacca acagttgaag cctctccaca cccttctatg gaataacttg 300

cgaggccaat gactatgcac aacatgtaat tttagcacag agacc 345

<210> 5497
<211> 487
<212> DNA
<213> Glycine max

<400> 5497

tgaagtagag gagaccttca atcctagaac gtaacgtggc atacaaaagt gggcagttaa 60

cttgaatgac cattattttc aatgcggaaa gtattatgtt cttcactatc catgttcaca 120

cattattgct gcttgtggtt acgtgaacat gaattacttc caatatgtag atgttgttta 180

cacaaatgag cacatcctaa aagcttattc cgcgcaatgg tggcctcttg ggaatgaagc 240

ggttattcct ccttctgatg agcaatggac acttatccct gatccaagta caattcgtgc 300

gaaaggtcgg ccaaaatcaa caaggataag gaatgagatg gattggctgg aaccatctga 360

gcaccgacaa aaatgtagta gatgtggaag agaaggacac aacagacgtc gatgtccaat 420

gcaatctgaa tgtggaagtt gtaaaataat tgaattatgt attttggttg cctacttgaa 480

tgaaatg 487

<210> 5498
<211> 535
<212> DNA
<213> Glycine max

<400> 5498

agcttttggt aaaagaagaa gaaaaagttc atagagattc aaggcttgta aaggattgat 60

tggaaaagta aaagtgtgaa agaattaatt gattgaaaat gcaaaacaaa gccttgcttt 120

tatagactct tcatgtctgg tcaagaagac catttagaag aggtataact tttagaaaaa 180

ctttaaaacc aatttgaaaa agtcaaaaac cttttgaaga gttacatctt ttgatttatt 240

cagaaacagt cgctggtaat caattaccaa ataagtgtaa tcgattacac aaagctttta 300

tgtgataaga tgtgactctt cacatttgaa tttgaatttc aacgttcaaa ggtactggta 360

atcgattacc aaaacattgt aatcgattac aacttttga aaataattgg aacgttgtaa 420

attcaatttg aaaacttttt caaaacaatt ttgctactgg taatcgatta caacaatctg 480

gtaatcgatt actagagagt aaaaactctt tggtaaaggt ttttgttaga caagt 535

<210> 5499

<211> 313
<212> DNA
<213> Glycine max

<400> 5499

gccttgtttg aaagaggtat gcctatgttg ctgcggaaga ttttattata tttacctggg 60

tcaactttat cagagagaaa tcagacacct ttgaagtatt caaagagttg agtctaagac 120

ttcaaagaga aaaagactgt cgtcccaaga gaaccacgag tgaccatggc agatagttcg 180

aaaaccgcaa gtttactgaa ctctgcacat ctgaaggcat cactcatgag ttctttgcag 240

ccattacacc acaacaaaat ggcataggtg aaaggaaaaa caggactttg caggaagctg 300

ctagggtcat gct 313

<210> 5500
<211> 545
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5500

agcttcaaga ataatggcct cagcaaactt cttattccca gaaggaaact ctataaatag 60

gcctcctatt tttaatgggg agggttacca ctactggaaa actcgaatgc aaattttcat 120

tgaggcaata gacttaaaca tttgagaagc catagaagtt ggaccttatg tacccaccat 180

ggtggctggt aatacaacaa tagagaaaca tagagaagag tggtctgaag aagaaagaag 240

attagtacaa tacaatttaa aggctaaaaa catcattact tctgccttag gaatggatga 300

atattttagg gtgtcaaatt gtaagagtgc taaggatatg tgggacactc tacaagttac 360

acatgaggga acaactgatg tcaaaagatc taggataaat actctaactc atgagtatga 420

attatttagg atgaagacaa atganagttt acaagatata caaaaaagat tcacacatat 480

agttaaccat cttgattcat tangaagaac ttttcaaaat gaagatctta taaataaagt 540

atttt 545

<210> 5501
<211> 559
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5501

tcaacatcag accacttcca gggtgctgga actacttcac atggacttga tggggcccat 60

gcaagttgaa agccttggag gaaagaggta tgcctatgtt gctgtggatg atttctccag 120

atttacctgn gtcaacttta tcagagagaa atcagacacc tttgaagtat tcaaagagtt 180

gagtctaaga cttcaaagag aaaaagactg tgtcatcaag agaattagga gtgaccatgg 240

cagagagttt gaaaacagca agtttactga attctgcaca tctgaaggca tcactcatga 300

gttctttgca gccattacac cacaacaaaa tggcatagtt gaaaggaaaa acaggacttt 360

gcaggaagct gctatggtca tgcttcatgc caaagaactt ccctataatc tctgggctga 420

agccatgaac acaacatgct atatccacaa cagagtcaca cttataagag ggactccgac 480

cacactgtat gaaatctgga aagggaggaa gccaactgtc aagcacttcc acatcttttg 540

aagtccatgt tacattttg 559

<210> 5502
<211> 385
<212> DNA
<213> Glycine max

<400> 5502

tgagcgttat accagctgcg gtgggctgca gctacgtcac atggacgtgg cggagcccgc 60

gcatgtgctc atccttggag gagagatgtc tgcctatgtt gctctggatg atttctgatt 120

agtgacctga ctcgactatc tcttagataa gctttacgcc tttgtcatat gcttcgagtt 180

gcatatctaa ctcaaattag aaatatactg tgtcatcgct agaattacag agtgaccatg 240

gcagacagct cgaacacact taggacactg aatcctgcac atgtagtgca tcactcatga 300

gctcgctgcc tccttggcag atcaagagcc tgtttttggc tatctgcata acactactgt 360

gccagactgt gcttcggtgg tacgg 385

<210> 5503
<211> 568
<212> DNA
<213> Glycine max

<400> 5503

tgaccgagga taggaattcc tacccttacc ctaggaagaa agatcagaag aatctccaca 60

gaagaaaagg aaagaaaaga gaaagagaga atcacacaat ctaagattgg aggaaagcat 120

acgaaaaata gaaaaagaaa taacgaacaa tatgaaaaga ttctttggat cagacactgt 180

ctgaacaatg tgcagaattg tcaaaatgaa taagaaaagc ggggcttaca aaaatttgtt 240

tgaaacctga gggatgcctg aagtattcac ctccatgctt gttccatgct gaaccaaaga 300

gaaaagagag atagaccgac aagggaaagg ccagaacacc caaaagccca aatttcccac 360

caaagttcaa cttgctaaaa agtcccattg atccatgttt tcacatgtta tctttgattt 420

gataggaaat gatttgcaaa gtcaagtcat gacatatttg tggttcggaa ttatgatgaa 480

acactttctt gtgtgagatt tatacactct gagtggttct cctctatttc agttggaccc 540

agagtttctt ctaaatgctc attttgaa 568

<210> 5504
<211> 507
<212> DNA
<213> Glycine max

<400> 5504

agcttcaaga tgctcaattg ctccaggttg ctgcatggaa gggcaaaggt ctgtatggtg 60

gtcagcagag gagcacaaac cacaaaccct tgctacaagt acaaatttct gattcaaggc 120

cagctgggtt accaagttaa ccaatgcatc cagtttgcct tcaagcttct tagtttcata 180

tgatgcagat gggtttgtag ctacctcatg cactcctcta atgactatgg catcatttct 240

ggcgctaaac tgctgggagt tggaagccat cttctcaatt aaatttctgg ctttagcagg 300

agtcatgtct ccaagggctc caccactggc agcatctatc atacttctct ccatattact 360

gagtccttca taaaaatatt ggagaagaag ctgttctgaa atctgatggt gggggcaact 420

ggcacatagt ttcttaaatc tctcccaata ctcatacagg ctctctccac tgagttgtct 480

aatacctgag atatccttcc tgatggc 507

<210> 5505
<211> 475
<212> DNA
<213> Glycine max

<400> 5505

agcttctggt aggacatctt gacttgcttt ccaatctgac attcaccaca gattctgcct 60

tcttctattt tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120

cctcttaagt gcagatgtcc aaatctttga tgccatattt cgacttcatc ttctttggag 180

gatagacatg tggaggagta actggtttct tgaggtgtcc ataggtaaca gttgtccttt 240

gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300

gtgaagctta cattgaatcc ttcatcacac aactgactga tgctgatcaa gtttgcagtc 360

cgtcccttca ccagcagtac tttgttcaga ctaagaagtc catcatggac tagctttccc 420

attccagaga tcttttcttt agagccatct ccaaatgtca cataactagt ggagc 475

<210> 5506
<211> 498
<212> DNA
<213> Glycine max

<400> 5506

agcttgaatc ggacatccgt gtgaaaagtt atgatcattt gaatttctca agagcttcca 60

ttgttcaatt tcgagcatct cgatatatta taagcctaaa tcggacattc gtgtgaaaag 120

ttatgaccat ttgaatttct caagagcttc cgttgttcaa tttcgagcct ctcgacatct 180

tatatgcccg aatcgaacat ccgtgtgaaa agttatgacc atttgaattt ctcgagagct 240

tccgatgttt aatttcgagc gtatcgatat attataagcc ttaatcgaac ctcaatgtaa 300

aaagttatga ccattttaat ttcccgggag cctccgttgt tcattttcga gcgtctgtat 360

atatgatgcg ccttaatcta acatccgtgt gaaaagttat gaccatttga atattctcaa 420

gagcttccat tgttcaattg caagcctctt tacatattat gcgccggaat cgggacctcc 480

gagtgaaaaa ttatgacc 498

<210> 5507
<211> 565
<212> DNA
<213> Glycine max

<400> 5507

tgtaatattt ataaatcact ttttttataa accttgatta attcaagtta aatcaattag 60

gtagaaccaa ttaacttggg ttatgggtgt aattttgatt gcattgaccg tatgttttag 120

tgtaacaatt tattccatac catgggactt aatattatgt attgggtacg tagtaaaaat 180

tatatatata tgcaaattgt tgtattacat cttattaata gttactatgt tagtgataat 240

taacactaac aagtatttat ctttaaaaaa aaagtctaat taaatcacgc acagacagta 300

catgtacagt caagtcaagg tgcttttcaa attaacctgc caacttgaat tatttattta 360

tgatctagtt aaaagtaata tatttattta tgctgagaat aaaagattat ttaaaaaatg 420

agtagccgct actagtctag tcaaaatttt caagttattg ccacctgaat gcagtcaaac 480

atcatgatgt tacactcgac taattaataa gaaagagagt gataatgtca attagtaaaa 540

caattaacaa ggttgtttta aattc 565

<210> 5508
<211> 480
<212> DNA
<213> Glycine max

<400> 5508

agcttcgtgc cataggaatg gcttagtttc cggagtagct ggtagaatgg ctttgccttc 60

tctgcgagcc ttaaaaagaa cctagacaga ggcattagtc taccattcaa cttctgaact 120

tctctgacgt tagtaagact atgcatttct agtatcgttg cgcacttggc agggttagct 180

tctatttcgc gatgggtaat gatgaagccc aaaaaatttt cgtggccaac cctaaaggtg 240

catttttga ggttaagggt cttgacatac ttgttaatct ctatgaacac ctcttccaag 300

tctgccacat gttgtgctac actgtgagac ttaacgacca tgtcatccac atatacctcg 360

acattttgtc ctaagggcat gaccctataa cagacgtgag tgagttgaga atgaatactt 420

accgagattt ggagtacact gatgtagtga agatggactc cacaatcttc ccccttggat 480

<210> 5509
<211> 525
<212> DNA
<213> Glycine max

<400> 5509

tcgccggccc gggacatcct ccaggggaaa gttacactgg ggtcaccacc tcgagctgtg 60

ctctctctct tctgtcaaat caaacatggg gttctagaaa cccagcacca agtcttgggt 120

tgaataacat ggtaaatttc cacgggacgc ccatgacaca gcctgctgca tcatctcatg 180

gtgcatcaat ccatcaactt ccaaataccc cgtggtgttt caagggcatt gattctggta 240

actgttcgcc cgaggggtc cctgatctag gtctcggtca gatttcgcag cctctcagta 300

gccaacttca cggtgagctg gacctgtccc aacaaggcag gagacattat atggatctag 360

aacagtccag ggcatatgaa tctgctcatt ggtcacttta atgcacttgt ttttgttttt 420

gttttttttgt caggtttgta ataaaatgta gcacaaacct gtgcctactt ggttactgac 480

cagattgatg ataactattt cttgttttgg tttgttcaaa ctgat 525

<210> 5510
<211> 539
<212> DNA
<213> Glycine max

<400> 5510

agctttagca taggatccaa tggagtaaga gctagcttaa agtgtgtcat ctcaacattt 60

tcaagtaagt caagaatcta atttcgtcta ttaagaaaga gacctttatt agaaactgcc 120

atttcaattc ccataaagta gtttaagcgg ccaaggtcct tgataggaaa acagatagca 180

aagcgtgttt gagttgagaa ataacatgat tactatttcc aacaataata aggtcatcat 240

cgtaaacgag aactaccact tgtttcattt aagacatcac aaacaaataa agaagaatct 300

gcattacttc ttaagaaatc acctcttgaa gaataatact taatttcaca tgccaagcac 360

attaagattg tttcaaacca taaattgatt tgtatagttg gcaaacgcag gaagaatttg 420

aacttttttgg atgtcctggg ggtcattcca tatagacttc ttcttcaaga tccccgtgta 480

agaaagcatt tttacatcca tttggctcat tgaccatcca taattaacaa caatatatg 539

<210> 5511
<211> 495
<212> DNA
<213> Glycine max

<400> 5511

tccattttca attacaagtg tctagatata ttacgggaca caatcggaca tccgagaaaa 60

tagatattgt cgcttgaatt tactacgagc atactgttgt caataacgag cgtctcgata 120

tactacgaga cacaatcgga cattcaagta aaaagttatt cctgtgtgaa tttgctacaa 180

gcttccattt tcaatttcaa gcgtctagtt atattacggg acacaatcgg acatccgagt 240

agaaagttat tgacgattga gtttgcttat agcatgtgtt gtcaattctg agcgtctcta 300

tatatgacgg gactcgatcc gacgtccgag ataaaagtta ttgtcgctag aatttgctcc 360

agagcttcta ttttcaattt ctagcgtctc gaaatattag agcactcaat cggacatctt 420

agttaaaaga tattgacggt ttaatttgct acgagctact attttccagt atgagcgatt 480

tgatatatta cggga 495

<210> 5512
<211> 502
<212> DNA
<213> Glycine max

<400> 5512

agcttgtagc aaattcaaac cgcaataact ttttactcgg atgtctgatt gtgtcccgta 60

gtatatagag acgctcgtat ttgaaaacag aaactcgtag caaatacaaa cgacaataac 120

tttttactcg gatgtccgat tgtgtcttgt agtatatcga gacgctcgta attgaaaaca 180

gatgctcgta gcaaattcaa atgacaataa ctatttactc ggatgtctga ttgtgtcccg 240

tattatatcg agacgctcgt aattgaaaac agaaggttgt tgcaaattca agcgacaata 300

acttttttact ccaatgttcg attgtgtccc gtagtgtatc gggacgctcg tacttgaaaa 360

cagaggctcg tagcaaatct ctacgacaat aacttttttac tcagatgtcc gattgagtgc 420

tctaatatat cgagacactc gaaattgaaa acagaagctc tgagcaaaat ccaacggaca 480

ttacttttat ctctgatggc cg 502

<210> 5513
<211> 396
<212> DNA
<213> Glycine max

<400> 5513

aatatgtaca aattctaagg cagagagcac ttacatccaa gtccaacaaa ttttatgtaa 60

gctacagttc actataattg cgccatactg cacgaaattc ttcacggaat gtgtttagac 120

gagctttcaa gttaggtgtt ctaaagcttg catgcaggat ggtagctgaa aatagcaaga 180

aaaattaact caaaagcaaa ttcatagttg ctaaaaatat ttaaaagatt aaaatttctc 240

agtatgcaac gtaccaagaa gaccaatagc aagagcccat aaaactgtca ggagaccagc 300

agaaacaaac caaagaaaga aacttgctgc agaaaaatgg ggaaagaatc actggaatca 360

aaaaatattg gactgggtag cagggatgac agaaca 396

<210> 5514
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5514

agctngtagg ccacctcttc gacttatgat ttatattgaa acggcccaaa atagcgggat 60

gagagtttgg gattaatacg tcgggccacc gtgagctgtc tatgagggtg caacttaatg 120

aacacccaat ccccctccgc aaaagacaca gcacgacgat gtttgtctac tgccttcttc 180

atggattgtt gggcacggtg cagatgagct ttcaattggc gaatagcctc gtctctatcg 240

aacaatacca aggctactaa atccacggat gtctcacctg tcaaaaaacg acgcacagat 300

ggaggagctc gtccataaac gaccttgaag ggagtctttt cagtagccaa atagaaagac 360

gtattgtacc attattcaac ccatgaaagc caaagatgcc atttatt 407

<210> 5515
<211> 351
<212> DNA
<213> Glycine max

<400> 5515

agctctgcgt ctacaaacgg catgtcctcc ttttggcctt tcaccatgtg ggggatagat 60

gtcataagtg ccatcgaacc caaggctttg aacgatcatc gcttcattct cgtggcaata 120

gattatttca ccaaatgggt tgaagcggct tcctacacca atgtcatgag gagtgtagtg 180

gtcagattca taaagaggga gctgatttgt cggtatggac tccctatgaa gatcattact 240

aacaatggca ccaatctgaa taacaagatg acgtaggaaa tgtgtgcgga tttcaaaatc 300

caacatcaca attccacgcc ctaccgacca aagatgaacg gagccatgga g 351

<210> 5516
<211> 436
<212> DNA
<213> Glycine max

<400> 5516

agcttcatga catgcctaag ttgattgtca atgattgtta tcgtgtattt aacaaccgct 60

tttggtgaga tctctttcat ttacaaggca taacactcgc ttttagtagc acctatcatc 120

cttattccaa tggagagact ggggtgacca atcatatcct acaaagttaa aagctttcta 180

cgaaactcct tcaactactc caccttcatt aacgacccac gtcactgaaa ctattatgcc 240

tttggtgcct tctgccatcc tagagagcca catgcttcgt cttggccgtg gctacattga 300

tcaagtgttg attcaatggg aagggctttc acctacgaca gctacttgag aggacaagaa 360

ggctttttgc gacaactatc cttactttaa ccttgaggac aaggttgttg aaaaaggagg 420

gggtattgat atgggt 436

<210> 5517
<211> 404
<212> DNA
<213> Glycine max

<400> 5517

agcttataat atattattac actcgaaatt ttcatcatat tctctcgaga aattcaaatg 60

gtcataactt ttcacccgga tgtccgatta tggcgaatca catatcgaga cgctcaaaat 120

tgaacaacgg aagctcttga gaaattctaa tggtcataac tttcaactcg gatgtccgat 180

tcaagcgcat cacatataga ggcgctcgaa aagtgacaac ggaagctctt gagaaattca 240

aatggtcata actttccaca ctgatgtccg attaaggatt ataatatatc aagacgctcg 300

acattaaaca tcgtaagctc tcgagaaatt caattggaca ttacttttca cacggatgtc 360

cgattcgggc gcttaatttg acgacacgct cgatattgaa caac 404

<210> 5518
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5518

gacactatga atctcagctt ggaaaccagc catcanatgc tatacgaaat tagattggaa 60

tagagtacaa tggcngcatg acggaccgtg cagaaccggg ttgtggagta aactcaatgt 120

cctcccttca aggtagaagt gatccagatg cctacctgga ctgggaaatg aagactgagc 180

acgtatttgc ctgcaatgac tacactgatg cgcagaaagt caagctagca gcagctgaat 240

tctccgacta tgcccttgtt tggtggcata aataccaaag agaaatgttg agagaggaac 300

ggcgagaggt agatacatgg actgagatga aaagggtgat gagaaacaag tatgtgccca 360

ctagctataa cagaaccatg cgacagaaac tcctatggct gtcccaaggg aatttaaccg 420

tggaagaata ttataaagag atggaaatgg cg 452

<210> 5519
<211> 208
<212> DNA
<213> Glycine max

<400> 5519

agcttgtagg ccttggatct tcttcatcaa tggagtcatt tgattcttga agatcaatgg 60

caacagaatg gagaaggagg aaaggtgatt ggaaacgcca cttcaaggag aagatgagtc 120

aagaacaagc tcaccatcat aggaagtcat ggataagagt ttgaaggtag gagaaaatga 180

gtggatggaa agagagaggc gggggggtt 208

<210> 5520
<211> 428
<212> DNA
<213> Glycine max

<400> 5520

agctaaatgt tgacatcctg cccctcatta tttgtaacat atgaaaatga cttttggcat 60

gagtatattg tttctctaaa atatggtgct ctcgtgaatg atttattttt ccttgctaaa 120

gcatgttcgc ctttttaggt gaaaaaacca ggtggaccat tcggtcctgc caacaaatct 180

tatccggagt cccatgaatt gattgtcatt catgcgacct ccaccatcaa gtctggagcc 240

ccacgaattg attgcctagc gctgttcgtc tatcctccac cctcaaatct tattcggaga 300

cccatgaatt gattgtcatt catgcaccct ccaccatcga gtctggagcc ccatgaattg 360

attgcctagc gatgttcgtc tatcctccac cctcaaatct tattcggagc cccatgacat 420

gattgtca 428

<210> 5521
<211> 428
<212> DNA
<213> Glycine max

<400> 5521

agcttgtagg gttaaagtct cattattgtt atgtgctcat gcaacaattg ttagccgtgg 60

ctatacgaga catcttgcca aacaaagtca ggttaacgat aactcaccta tgctttttct 120

tccattctat atgtagcaaa gtcattgatc cagtcatatt tgatgagttg gaaaatgagg 180

ccgcaattat actgtgccag ttggagatgt atttcccccc tgctttcttt gacatcatga 240

ttcacttgat tgttcatctg gtcagagaag cagaagaagc cattgaattt tgttcagaat 300

acttagagaa ggctaaacct gttgggcttc ctgagtctcg gcatgatgac agagtgggtg 360

gtaagggttc aagaggactg caggtgatca ctccaagtgt agaagaattg tacaagctca 420

cttgtatg 428

<210> 5522
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5522

aagtctcacg attgtcacgt gttgatgcaa catattgtta gccatgtgtt ttgcgagaca 60

tcttgccaaa caaagtcagg ttagccataa ctcacctgtg ctttntcttc catgccatat 120

gtagcaaagt cgttgatcct gtcaagtttg atgagctgga aaataaggcc acaattatac 180

tgtgccagtt ggagatatat attccccctg ctttctttga catcatgact cacttgattg 240

tgcatctggt caaagaaatc gaatgttgtg gtcttgttta tctgcggtgg atgtacccgg 300

ttgagtgata catgaagatc ttaaaagggt atacaaagaa tctatatcgt ctagaagcat 360

ctattgttga gaggtacatt gcagaaaagc cattgaattt tg 402

<210> 5523
<211> 397
<212> DNA
<213> Glycine max

<400> 5523

agcttgaata tcttcatttg agtattgcaa ttctatccaa agcatttcat tggctacaca 60

ctctccaatc tcttccttct ttgacccgcc tatatttgtc aaactgcaca ctccctcact 120

ataatgaacc atccttgctc aacttctcat ctctgcaaac tctccatctt tccgttacta 180

gttattcccc tgccatttct tttgtcccca agtggatatt caaattgaag aaacttgttt 240

ctcttcaatt accgggtaat gaaatccaag gtccgattcc tggtggtatt cgaaacctca 300

cacttcttca aaatcttgac ttgtctgaaa attcattctc atcttctata cctgattgct 360

tatacggtct tcatcgtctc aagtctttgg acctaag 397

<210> 5524
<211> 332
<212> DNA
<213> Glycine max

<400> 5524

ggacctatag aatctaagct tcgttttaat tacgagcatt tatatatagg ggggttattg 60

acatccgagt aaaaagttat tgtcgttaga atttgctcag accttccgct ttcaatttca 120

agcgtctcga tactttacgg aattcattcg gacatccgag ttaaaagata ttgtggtttg 180

catttgcttt gagcttccat tttcaatttc aagtgtctcg atttattaca ggactcaatc 240

agacatttga gtttaaagtt aatgtcgctg aatttttac gagttttccg tttaattaca 300

tgcattctga tatataactg gactcattgg ga 332

<210> 5525
<211> 426
<212> DNA
<213> Glycine max

<400> 5525

agcttgtagc aaattcaaat attaataact ttttactcgg atgtccgatt gtgtctcgta 60

gtatatcgag acgctcgtta ttgaaaacag atgctcttag acaattcata cgacaataaa 120

tttttactca aatgttcgat tgtgtcttgt aatatatcga gacgctcaaa attgaaaacg 180

aaagctcgta gcaaaatgca accacattaa cttttaactc ggatttccga ttaagtcccg 240

taatatatcg tgacgctcga aattgaaaac ataagctctt agaaaatttt aacgacgata 300

acttttttact cggatgtccg attggaaccc gtaatatatc gagactcttc aaattgaaaa 360

cagaagctcc tatcaaattc aaactacaat aacttttttac tccgatgtcc gattgtgttc 420

cgaagt 426

<210> 5526
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5526

agctaccatt gatcaatttc gagcgtcttg ttatgttatg cgcctgaatc agaactccga 60

gtgaaaagtt atgaccattt gaattgctca agagcttaca gtggtcaatt actagcgagt 120

agatatatta tgcgccagaa tcggacctcc tagtgaaaag ttatgaccat ttgaatttct 180

tgagagcttt cgttgttcaa tttcgagcgt ttcgatatat tatgcgcctg aatcggatct 240

ccgagtgaaa agctatgacc atttgaattt ctcgagagct tctgttgttc aatttcgagc 300

gtctggatat aatatgcgaa tgaatcggat ctctgagtga aaagatatga ccatntgaat 360

ttctcgagaa gcttcgttgc tgaattttaa gcgtcttgat ataatatgcg cctgaatca 419

<210> 5527
<211> 461
<212> DNA
<213> Glycine max

<400> 5527

tctgagtcac ctgcggcatg caagcttcaa gaaaaagatg gcctcagcaa atttcttatt 60

tccagaaggg aattctatca atagacctcc aatctttaat ggagagggtt accactactg 120

gaaaacccaa atgtaaattt ttattgaggc aatagatcta aatatctggg aagccataga 180

aatagggcct tatataccca ccacagtaaa aagagttaca atagatggta gatcatcaag 240

tgaaagcata actatagaaa aacctagaga cagatggtct gaagaggata gaaaacgagt 300

acaatacaac ttaaaagcca aaaacataat aacatctgcc ctgtgaatgg atgaatattt 360

cagggtttca aattgtaaga gtgctaagga aatgtgggac actcttcgat taacacatga 420

aggaactaca gatgttaaaa gatctaggat aaatgcacta a 461

<210> 5528
<211> 373
<212> DNA
<213> Glycine max

<400> 5528

agcttgcctt gccccttgat atacttgtgg ttacttatgg ccactatgaa tgacaaaatc 60

cttgggataa aggtagtgtt gtcatgtttt caaagaccgt actaaggcat acaaatcctt 120

atcataagat gaatagataa aggcaggacc acttaacttt tcactaatat aaccaaattg 180

gatggccgtt ttgcaacaac acaaccctca tcccaacatt ggaagcatca cactcatatt 240

tcaaagattt gggaaagttt ggcaacgcaa cgtatggggg cattagttag catttgctta 300

agaacattga aagctccttc ttggatctct tcccatgtga aaccaacatt tttcttgagc 360

acttcattga gag 373

<210> 5529
<211> 429
<212> DNA
<213> Glycine max

<400> 5529

agcttctcac gcccttgaca ttcatgggat gtatgaagtt tctcaatcac atcaatcttt 60

gccttgtcca cctctatttc ccttattgaa atcttatgcc ccaacactat tccttcttga 120

accatgaaat ggcatttcac ccaattgaga actagattgg actcttcaca tcactgtaat 180

actctttcaa gattggataa gcacccttca aaagatggcc caaaaatagg gaaatcgtcc 240

atgaaaactt caatgcattt ttccaccata taaaaaaaaa tagccatcat acatctctga 300

aatgtagcta gggcattgca cagaccaaaa ggcatgcgcc gatatgcaaa tacaccaaaa 360

aggcaggtga aagcagtctt ctcttgatct ttgggatcta caacaatcta attatagcca 420

gaatatcca 429

<210> 5530
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5530

ggttctatat ccatagaagt tgggcgcaat agcttgctgc taacatgtat nttgcttcag 60

tagtggataa tacagttgat ccctgcttct tgcatatcca tgtgactaag tttccttcta 120

tcaaaaggca acttccactt gtacttttc tttctacttt atcactaaca tagtccgcat 180

cacaatagct tatgagcctg aaactttccc ttcttttgaa caaatgacca agggtaggag 240

ttccaattaa atatctaaat atacatgtaa ctgcaattaa atgaacttcc cttggttcct 300

cttagaatat agcacataag caaactntga acgttatatc atgcctaaac gtagtaagat 360

actgtagtga gccgatcatt gctctgtact gggtcccgtc caccttcgtt gattcctcgt 420

tc 422

<210> 5531
<211> 441
<212> DNA
<213> Glycine max

<400> 5531

gcgctcgaga aacattaata gaattatatt tgtctatatt tcaagtacac atttaacatt 60

tttttctcta aaattaaact taatgggctt ctagagcaaa agagagtttt tcaacttcaa 120

ccaaataaag aaacttcaaa gcattgttct ttgtttgtgg taactttaat tacaaagcat 180

acacatatat aattaatttt caattaagaa aaatcaaatt acctcttcaa acaatgtaac 240

ataaaagata aaacaaacca caaaaaataa tcatgaaagg aagagataaa tttatttcca 300

accacacata tcaaatattc atttaatgaa tgtgaaatta caaaactacc cctaatacaa 360

aaactagtct aggtgcccta aaatacaagg gctgaaaaat cctacatttc tagggtacct 420

tacctatatt atggatccct a 441

<210> 5532
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5532

agctngaagg taaactagat gtcttggtta acttggctta ttaactggcc atgaatcaaa 60

aatctgcacc tgtcaccaga ctctgtggtt tatgctcctc tgccgaccac cacacagacc 120

tttgcccttc tgtgcaacaa tctgaagcaa ttgaacaacc tgaagcttat gttgcaaaca 180

tctacaatag acctcttcaa cctcagcagc agaatcaacc acaacagaac aattatgacc 240

tctccagcaa caggtacaat cccgggtgga ggaatcatcc caaccttaga tggtcgaatc 300

cttcacaaca gcagcaacaa caaaaacagc cttattttca gaatgctgct ggcccaagca 360

aaccatacgt tcctccacca atccagcagc aacaacaaca acaacaatag ccccggaaac 420

atcaaaca 428

<210> 5533
<211> 434
<212> DNA
<213> Glycine max

<400> 5533

agcttgagct cggctggagt tgaatacgtt tagcttgagt tgacataggg ctttttaag 60

gctctgctcg acttacataa aagtctgact tacgagccta tttaaaagct tgcttaaaga 120

cgtcttttat taattaatta ttttaaaacc tagtgaaata ctaactaaaa aaagaaactt 180

ataaaatttc gtataaataa tgtacaaatc taaaaataat tgataaacaa aattatattg 240

aattcaagtc gttaaagcac aaagtatata aaaaaaataa aaatagcata atattaaaaa 300

atgtatggat tagagatgat ttacactaat atagccaaac aaaaattatt attagttaaa 360

ttaacaattt ttaatccaat ttttttaata tataactata ttatatagtt ttaaaaaaaa 420

tatatccaca ataa 434

<210> 5534
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5534

ctagcttctt aaggaagttt tctcaaagta agcttctcaa ggtagttttc ttaagaaagc 60

ttctcaagga agttacctag tctataaata aaagcatgtg taacacttgt tataactttg 120

atgaatgaga gtcttgtaag acacaactca cagttcaact tctctccctt tgtcttcctt 180

caatttcgtg ctccctcctc tctttctttt agcaaatgct caccccccc tctaaaattt 240

aattggattg ggcttctccc aattcaatta aatttatttt caaccacaca catcaaatat 300

tcacttaatg catgccaaat tagaaaacta cccctaatac aaaagactag tctatgtgcc 360

ctaaaataca agagatgana aatcttacat ctctagggta ccttaactat attgtggagc 420

ccaaatacaa tgcccaaaat aatgaaacct t 451

<210> 5535
<211> 257
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5535

agcttctgtt atcaattgtg agcgtctntn atattattgg actaaatcgg acatccgagt 60

aaaaagttat tgccgttcga atttgcaacg agtttgtttt ttcaatttgg agcatctttt 120

tatattacgg gactcaatag gacatccgag tataaagtta ttgttgtttg aatttgctca 180

gagctatgga acttactttc cagtgtctcc atatattacc gaatttaatc aaacattcna 240

ctataaaacc attgccc 257

<210> 5536
<211> 436
<212> DNA
<213> Glycine max

<400> 5536

agcttgaagg catgtaaccc accatcttct cttagtatat cataggtaac gtgcccatta 60

tcattgttat catttccctt tccatcattg tgggtgctac ttgagctgcc agatccctct 120

acctttgggc gtattctttg aaagattcat gtgccctctt acacatggtc tgaaactgca 180

ttcttttcgg agccatatct gaatagtgct gatattgcct aacaaaggca gccattaggt 240

ccttccacga atggactcgg gaaggttcca gattactata ctaggtgatg gctgccccag 300

ctagactatc ctggaagaaa tgcatagaaa agtgttgatc tttttcgtat gccttcattt 360

tcctgtagta catcttcaag tgattcttgg cgcaagtagt ccctttgtac ttattgaaat 420

ctggcacctt gaactt 436

<210> 5537
<211> 398
<212> DNA
<213> Glycine max

<400> 5537

tatcggattt gtaatctcca tctgattcaa cctatccatg ttaggaaagc aggggtggaa 60

cttgattaat aacccacata ctacaatgta taaaattctc aaaaataaat attatccaga 120

tgtcggattc tatgatgcaa aactagggca tgaaccaagc tatacgtcgt atagcatttt 180

tgcttcacat atattggtcg aggaaagcat atagtgcaaa aaaagtgatg gtagctctat 240

aaacgtttgg actcaacctt gggttcgagc atcaacaagc ccatatatca cgtgatcaac 300

cctgctcgat cttgatgatc tcatagtcag ttcactcatc gacaaccaac aacgatgttg 360

gcgtcaagat gtgctacaac aatatttcaa tgacaacg 398

<210> 5538
<211> 411
<212> DNA
<213> Glycine max

<400> 5538

agcttatcac ccttaccggc gattgttata atcttttaat ggaagtcaag ggcatgatag 60

tgcaccgata tcgttaactg gtcaacaggt tcttgagcga gttgagggca tcaatgttgt 120

atttggaaag acccaaaaag gaaaaaagta aaacttctat atagaagaaa aggtcgatat 180

tgtttgatct tccatattgg tccgatctag atgtcagaca ttgtatttat gttatgcatg 240

tcgagaaaaa tgtttgtgat agtgtcatcg acacacttgt taacattcaa ggaaagacaa 300

aggatggttt gaatactcac caagatctag ttgagatagg tatatgagac caattacatt 360

caaggtatga tggtaacaaa atatacttgc ctccaacttg tcatactttg t 411

<210> 5539
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5539

ctagctactn tctctgtntg ttggatgaaa ggcactgcta cttctaaact ctggttaatc 60

tataatattt acatgtctta tgttaatatt ggataaccat gggttgttag aattgtgaac 120

tgactaatac gtggcatatt atctgacttt gggcatccat atctgtactt atataataca 180

gatctctttg ctcattaaaa aacaaaatac taatctatta aatttttctg catattcgaa 240

taataaattc aatttttttca tttttcacaa actaatttat tagtgtctca tatttccagg 300

aagtaaaata aagatttatc ttatgagcaa atatttgatt ttagtaaaat tagtaagatt 360

taaattttaa ttctattgca tctgcacgtt ataattatta ctactcttct actaatttta 420

ccaccataag tttttgttta 440

<210> 5540
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5540

cttgcaagct ggaatcattt atcctatctt cacagccaat tgtgagtccc atccaggtag 60

tttcaaagaa aaccggcctc accgtgataa aaatatgaga aggaggagct aattcctact 120

cgagtgcaga acagttggag agtatgcatc gactatagga ggctgaacca ggttaccaaa 180

aatgaccatt gtgcactgtc attcattgac caaatgcttg aacacctggc agataaatct 240

cactattgcn tccatgatgg gttttctggt tatatgcaaa tcactattgc ttctgaggat 300

caggaaaaga ccacattcac cggccccttc ggcgctattg cctataagat gatgcctttc 360

ggcctgtgta atgtccctgg ttccttccag cgatgcatga tgagtatttt 410

<210> 5541
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5541

ntgatatata caattgcact attcataaaa tatgagccat gttcagcaat ctcaaccttg 60

gtgaatattt agcctcgtgg aagataaata acaaatccac ctcagtctcc tgtgttaagg 120

gtcctgtcac atctatcatg agcaacattc aacaagtcca agcaaagttt gcacttgtta 180

gtttcgacta tcatagtcaa gatattaact gcatcttctg tagtgtgaac cttccatagc 240

aaaacctggc tagatgtgag taactccctg atcttgtgaa acatcacatc aatatgattg 300

gttctcgaat gatacaactg agtctttgta gatcaatagt attctatcta ttgcaatgca 360

actgaacaac aactggctca atgcccaact cattcactaa ccctttctaa ccaca 415

<210> 5542
<211> 248
<212> DNA
<213> Glycine max

<400> 5542

tctggcttca attattcagt gggctctcct tccgtgtcca ccatgttgcg atgtacccag 60

cctgtgagga ccgctttaca ggttctgcta tccagggatt cgaggaatgc caccatactc 120

gctttccaat attcacagat gcttccatcg agaagagcgg gtctgctcac tggaccgact 180

tctatctcca ggctcagcag agattgactc cctatatatc actctgggaa tccgagtggt 240

ggctctga 248

<210> 5543
<211> 299
<212> DNA
<213> Glycine max

<400> 5543

tccgttgttc aatttcgagc gtctcgatat atgatatccc ttaatctgtc ttctgtgtga 60

aaagtttgaa ccattcgaat ttctggacag cttccgttgt tcaatttcga gcgtctcgat 120

gtattatgta ccaaaatcgg acatttgtgt gaaaagttat gaccattcaa atatgttgag 180

agcttccatt gttcaatttc gagcgtctag atgagttatg tccgcgaatc ggacatccta 240

tgaaaaggta tgaccattcc aatttctcga gaaccttctt tggtcaattt cgaacctct 299

<210> 5544
<211> 460
<212> DNA
<213> Glycine max

<400> 5544

gagcttggag tttccaagtg ccaattcgtc ttcttcttta gtccagtctt cttctggctt 60

caattcttca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120

gacagctttc caggttctgc tatccagtga tttgaggaag gccaccattc ttgctttcca 180

atattcatag ttgcttccat cgagaattgg tggtctgttc actggtccgc cttctttctc 240

catgttcatc agaatttatc tccctagatc tcactctgtg atttcgagtg ttggctctga 300

taccaattga aattctgata ccaggggaca gatgtcgtac aggatgtcac gacatcacgc 360

ttcagaacat gcagattata tgtgtccgta tgaacagatt aaacaagtaa ataacacaag 420

agaattgttt acccagttcg gtgctacctc acctacatct 460

<210> 5545
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5545

tctatggaaa atgtgaaagt tctcaaagct atccttagaa cttttgaagt ggtttctggt 60

ttaaaaataa attttgccaa aagctctttt ggtggctttg gtagggatga ccagtggagg 120

caaatggcag ctacctatct taattgcagt cagttagctc tccctttttt tttatcttgg 180

tatacccatt ggggccaacc cgaggcaagc tcatgtgtgg gaacctatta tccaaaaata 240

tgagaggaga taagctaggt ggaagaagag atatatctct tttgggggga gtgtggttcc 300

tatccaatca gtccttactt ctcttcctat ntattatttn tctttnttca gggttccccg 360

tatggtggct aacaaattaa tcagaattca gagaagctnt ctttggggag gaggtcatga 420

caacaacaag aatgcttgga tatcat 446

<210> 5546
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5546

agcttgtaag accacagtaa gagtagtgtt gtatcagtgg agaacatcca acccctttatt 60

gtagccccac tgtatgaatt attgcatgaa taagaacgaa acttatagtg agatttaagg 120

ctttcaaaat atgaattact atatatgaaa agaagttaaa atatctttgt attcaataac 180

aatttgattg tttgaaaatt gatgactgca ataccatgca tgactacgga ataatttctc 240

caaaataaga aataaaataa ctaaaaaaaa ggctgaaaag gtcttcatta aaggctntgc 300

acaatgcaca ttaattaatg aaataataat agaatacggt aagagtgagg actctacctg 360

gaggattgtt aaggtattta gagtaccact tgatacagga cttctacttt ggcacanata 420

ctttatcccg ctcaagagaa accagtgtgg agt 453

<210> 5547
<211> 463

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5547

agcttgagct tagctacaca tacctctcta atagctaagc tcacctcctt gagatgagaa 60

gctagagctt agctacacac cccctataat agctaagctc acccccatga caaaaaacat 120

gaaaatacaa aaaaaagtcc ttactacaaa gactactcaa aatgccccga aatacaaggc 180

taaaacccta tactactaga atggccaaaa tacaaggccc agacgaagga aatacctatt 240

ctaatattta caaagataag tgggctcata cttagcccat gggcttgaaa tctaccctaa 300

ggctcatgag aaccctaggg tcttcccttg gatctctagc caatctactt ggagtcttct 360

acccaatgcc cttgcggggt aggatngcat caganagggc acccttcaaa gacggtcctc 420

caaccgatgt cggtattcaa cgacactggt gtaccaccac acg 463

<210> 5548
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5548

agcttgtacc cactacaggg cagtagatta tgtttgcttc acttgatttg taatgctgtt 60

gtacggccag tttatgtttt aactattaac agcattaaca gcttcacttg atatttaaca 120

gtttcacttg ataaaattta aatatttaat ttttaactaa tgttttgcta ctcgtgtaaa 180

ccttgcagtg atcctaactt gcactttgtg gagtctcctg catcggctcc accagaagtt 240

taaattgatt ttgctgcaca acaacagtaa gctatcttcc ttgacctaaa ttaattcttt 300

ctatagtagg ataaaaacat agattgtaga aattcatagt tgcatttgaa gataaaaagt 360

aaacataaat ccttcttcac aaacataaac ccttctttag tatattcata aatcatnata 420

taacaaattt gatttctcat tttttaaaaa gaaattattt ctaca 465

<210> 5549
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5549

agcttctggt gggacatctt gacttgcttt ccaatctgac attcaccaca aattctgcct 60

tcttctattt tcagattggg aatgcctcta acagcacctt tgtcaatgat tttcttcatg 120

cctcttaagt gcagatgtcc aaatctttga tgccatattc tgacttcatc ttctttggag 180

gatagacatg tggaggagta actggtttct tgaggtgtcc ataggtaaca gttgtccttt 240

gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgacttt 300

gtgaagttta cattgaatcc ttcatcacac agctgactga tgctgatcaa gtttgcagtc 360

agtcccttca ccagcagtac tttgtccagt ctaggaagtc catcatgaac tagctttccc 420

attccagtga tctttccttt agaaccatct ncanatgtca cat 463

<210> 5550
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5550

ggatattaat gatataaggg gacaattgtt tgatattgga tctaacaaga agggtaaaat 60

taagaagtgc aaaaaagatt attagttata aattctacaa aattttatac gtcatttgga 120

tgttattatt tagatttagt cttatatgcc taatttatct cctggagcta tttctttttt 180

ttttttagag ttctacaaca catttattct ctatttactt catacactaa acaatggaaa 240

tttttgcaag ataatgtatg aaaattttct attaaatcat tatctcanac ttgatgggag 300

agtagaattg aaagtgtcaa accaatataa ctttaagcac catagataag agatgtttgc 360

ttcattatca aatatagtga agatcctaat anaaagtgaa gcctatgtta acaactatag 420

aataaaattt gaattt 436

<210> 5551
<211> 413
<212> DNA
<213> Glycine max

<400> 5551

tcctacaatt ggacaatagt ggtgagcctt tcaacatcac ttcccaagta gtgtttgatt 60

ctgctgccat tcacagtctc tgtcctcttt gtggctggat ccttcaatac cacaactcca 120

tgtggaatga cttcatttaa gatgaatgat ctggaccact tagattttag cttccctgga 180

aacaatctca atctagaatt aaataacaaa acctgttgtc caagcagaaa ttttttatca 240

aaagcttttt atcatgacaa actttaactc tttgcatata aagcttggaa ttctcataat 300

cttgaaacct taattcctcc aattcatgaa gttggagctt cctatgttca ccagctctgt 360

ttagataaaa attcaaaaac ttcgatgccg agtaggttgt gtgctccaac aca 413

<210> 5552
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5552

agcttagacc gctgaaggaa ctttcttatt tattgggaaa acagtaaact taatcaactc 60

cgtatacgaa tagaaacaaa agagagacaa aacagtcaat gttgagttga gccatcgaca 120

actctcgtgc aagcacaagg aggagtagcc cgatgcttgt gagtgacacg gataagtgca 180

cttattattt ataaaataat agagaaaaat aaaaagttcg gcgaatagac cgatttgaat 240

cgaacactca acaccggcgt ggcgtttccg tatgtttttg atcaatagaa caggaagagg 300

aggaaaaaaa agcttatgat gagcatctat ttgagtcgat catttccaag atctaattcc 360

agtttattct tatgtagtgg aaaggcctta caatctgaag ttntacgctt aggggaagaa 420

atgttcttgg tggatgcagg acctgngacc cccagaattt gtatg 465

<210> 5553
<211> 432
<212> DNA
<213> Glycine max

<400> 5553

ctttcttaga catatttaga tggctgcaaa caatttatta tgtctcaaca tatgctaaat 60

tcatgaagga tttgcttaca aacaatagaa taattatgga tgatgaaaca ttggagctag 120

aggcaggttg tagtgcaatt attcataaat ccattctata gaaatctcga gatcctagta 180

gtttcacaat tcctgtgact attagaagat tattaatagg aaaggcagtt ctttatttag 240

gtgcaagtat caacctaatg cccttgtcca tgatcaagcg gataggagaa gtagacatta 300

taccaacaag gatgactctg cagtttgcta acagaactat caagcattct tatggcatta 360

ttgaagatgt attggtaaaa gttgaccaaa ttctctttct agtcaactct atggtgatgg 420

atatgaagac aa 432

<210> 5554
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5554

agcttgttac taaggaagaa gtttatatgt tgtttcctct atgaaatcgt ataaggcacc 60

tgaacctgat gggtattaga aaatattttt taagatattt tgggaaaagg ttggagatga 120

tgtttggaga tttgttagag aagcgattca gaaggtatgt ttgatgtgta ggctgctaag 180

actattattg tcctaattcc taaaggtgat tctcaaaaaa catttagagt gtgtttggat 240

agagaatttt aacaaaggaa agtaatttat cagagaatct aaatttttct aatctagaat 300

tcattgtttg gatgtttttt ttatgaagaa tttaaattnt tggaatttta aaacggaatt 360

tcaaacaact aanaatgtga aatttcaatt ctcttctaaa aagtgagaaa ttaagattat 420

cttcttatag aagaatcttc taaaatg 447

<210> 5555
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5555

agcttaccac ccagcttttg aggttatgct ttgtctcatg ctgcatatct gatcaactgc 60

atacccactc ccttttttgca taacatatcg ccttatgaga aacttcatgg acacccacgt 120

gacatatcta atcttcgcgt gtttggctgc ttgtgttata tcaacactct taaagcacat 180

tgtcaaaagc tcgatcccag agcgcatcca tgcatcttca ttggttttaa aacgcatact 240

aagggatatt tagtctacga ttttcattcg catagcatca attgttcacg aaacgtcgta 300

ttttatgaga atcatttccc acatttccct gaaacatcat ctttgaaatc cacttttact 360

attccaactc cggagtcatt ctccagcgac caatatgaac caccagttga tattatcatt 420

actatacgca gaacccanaa cggtcctact caagatgagc cttct 465

<210> 5556
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5556

agcttaaggg aagagaggaa tgcattcttg atttatacta tttcggtcac ttcctgtgcc 60

tacgtccagt ccttaagcaa cccacttgag attttccact ctctttgtaa aactcctttt 120

acaaagtctg aaccacacag ggacaaccct tcccttgtgt tcaggaatcc tctacaacaa 180

gagacccatg gtctcttaat ccctttttcag aaataagaag aagagaagaa gaaatctctc 240

ttaaaagaga tagattgtac aatgaagatc aatcaaaaat tccttattga atatgcaagt 300

ggttgaccaa ggaatctttt tgagaggata agacatttta gttcagaana actcttaatc 360

tttggagagg ataaaacttt ttgggcaata aaaactctct ttaaattcga gtttccgagt 420

cacatataaa tagacccttg atggccattc ataaaccatt tgaata 466

<210> 5557
<211> 484
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5557

gacactataa atctaagctt aacaagttag taagttttct acttataatt ctagatatat 60

tatgtttata tatatgatgt tataattgtg catgatctgt caaagaaaat atgatgtttc 120

tacttgcatg atgtgttata atatatgatg tttatatata tttcgaattt tgttgttaat 180

aaaactgttt aattagaaac tgtataattt ttttgtttaa taaaactgtt taattttgca 240

tgatctgttt aataaaactg tttataaaac tgtttatata taatatatga tgttaacatt 300

nttaaaactg tttataaaac agtttagtta gaaaaaatgt taaaactaga gaaaaaaaat 360

gtataataaa actgttatat ttaaaactgt ttcattagag taaaacattt tttctttgtt 420

tttatttcga aatttaatac atatgttata tagaatgata tatgttgatg atgatgttgg 480

atgt 484

<210> 5558
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5558

agcttataac atatttaaga cacactaaga tgaatgttaa gaatatattt gaggtcaaat 60

tagtcaattg cttaggcatg agtattttat tgcccagaaa atttagagaa gattaattag 120

taatatatag tcaggaatat aaattaaaat gttacaacta tcttcactac cttaacttca 180

agagcaccag ctaggcctta ctatattcaa aagaaaaggt taaaactgtg aaaggcaatc 240

taatcacaaa ctaacctgtc tgatgacatc attaagacca gggcagagcc ctccacaagt 300

aacaattgct gcctttactt cttctggctt aaagtatatc ttttcacgag gcccagctcg 360

atgaacccta aaaggatttc agaactactt agcatatatg ttaatattag gaaacagcat 420

tctatacaac acaaagatgt actanaaata ttgaaaccat aaactagaag 470

<210> 5559
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5559

agcttctaaa ctntatacaa gaatgaagct ctgataccac ttgttggaca agtggcctca 60

gatatcttaa gaaggggggag ggggggttga attaaaatat tacaaattat ttccccaatt 120

aaaaattcta tttaactttc tattcaagtt acaaattccc ttaataatga atttcttaaa 180

taatgattca aatagaacaa tttgaatatg aatataaaac aataataaat aaatgagttt 240

aagggaagag aaaatgcaaa ctcatattta tactggttcg gccacaccct tgagcctacg 300

tccagtccac aagcaacccg cttgtgagtg ccactatcta gtaaatntcc tttacaagtt 360

ctaaacacac aaggacaatc ctt 383

<210> 5560
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5560

agctttggca aattcaaacg accattactt ttgactcgaa tgtatgatcg atgccgatta 60

tatatcgaga cactcaaaat tgaaaaacag aagctcacga gaaattcaaa tgggtataac 120

ttttcactcg gatgtctgat tcacgcgcat aatatatcga gaccctcgaa attgaacagg 180

gaagctctcg gcaaatccaa acgaccataa catttgactc gaatgtatca tcgacgccca 240

cgatatttcg agacgctcaa aattgaaaaa cggaagctct tgagaaattc aaatggctat 300

aacttttcac tcgaatgtcc gattcacacg cataagatat cgagaccctt gaaattgagc 360

atggaagctc ttggcaaatt caaacgaata taacttntga ctcgaatgta tgatcgatgc 420

cgattatata tcgngacgct c 441

<210> 5561
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5561

cttcaacatt caatttgagc gtctcgtaat attactggac tctttcagac atccgagtaa 60

aaatttattg tcgtttggat tggctcaaag attcaacatt caatttcgag cgtctcaata 120

tattacggga ctcattcaga catccgagta aaaagttatt gtcgtgtgaa ttagcttaga 180

gcttcaacaa tcaatttcga gcgtctcgtt atatcacggg actcaatcag acatccgagt 240

aaaaagttat tgtcgtttga attggctcag agcttccaca ttcaatttcg agcgtctcaa 300

tatattacgg gcctcaatca gacatccgag taaaaagata ttgtcgtttg aattggctta 360

gagcttcaac attcaatttc gagcgtctcg atttgtgacn agagtcaatc agacatccga 420

gtaaaaagt 429

<210> 5562
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5562

agctntgagc caattcaaac aacaataact ttttactctg atgtctgatt gagtcccgtc 60

atatatcgag acgctcgaaa ttgaatgttg aagatctgag ccaattcagg cgacaatatc 120

tttttactcg gatgtctgat tgagtccttt aatataacga gacgctcgaa attgaatgtt 180

gaacctctga gcaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240

taatatatcg agacgctcga aattgaatgt tgaatctctg agccaatcca aacgacaata 300

aatttttact cggatgtctg attgagtccc gcaatattac gagacgctca aaattgaatg 360

ttgaagctct gagccaattc atacgacaat atacttttac tcggatgtct gattgagtcc 420

cgtcatatat cgagacgctc 440

<210> 5563
<211> 331
<212> DNA
<213> Glycine max

<400> 5563

ggtgatcgat tacacagtaa gggaattttc aaaataactc ttatgagtta caactgttca 60

ggaagttttt gaatggccat cataggcctt taaagacttt ggatacgaaa ttccttagag 120

gttttctgaa taacattttc ttatcctctc aaaaccaaat tgtcttatca ttctcaaaat 180

attccttggt caaaacactt gcaaattcaa taaggaatct tgatcgatct tcaattgcaa 240

tatccttctc ttaaagagag aaaattcttc ttcttcttat tcaaacagat ctgtttaaga 300

gaccgagagt ctcctcatat gtaacgatat t 331

<210> 5564
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5564

agcttttcaa tttctatcca aacaatacca tattgtaatt aaaaaaaaac ataagaaatt 60

agttacatga tattctcaat tcccaactac ttccgttgat atgatttttt tttttaatat 120

gatatatcta attgaagcct aacatttcaa aattaaaata tatcaccaca gttaacaaat 180

ttgttattaa ttntaatttc atgtcattaa attaagatat gatctcatat tngatcataa 240

acccagttag attgatattt ttttccagta tgatgtaccg gattgcaagt tataaaatta 300

aagtaacatt ccgttaaata tattgatttt atatgtatta ttatttggag ggatttcata 360

tttatntaat aattcaaggt tataacaata ataaatttta tccancatca ttcaactgat 420

tgaggtaact cttgttaaaa aattgattta tatatttatt att 463

<210> 5565
<211> 466
<212> DNA
<213> Glycine max

<400> 5565

agcttcctca atttttatgg attgatgctc ttaagactgc tgcgtatata ttaaatcaag 60

ttccaaccaa gactgtctca aagacacctt ttgagttatt caagggttgg aaaccaagtt 120

tgcaacatat acgcgtttgg ggatgcccgt ctgaagtaag aatttataat ccacaagaga 180

agaaactaga ccctaagact attactgggt atttcattgg atatgctaaa aggtctaaag 240

ggtataggtt ctattgtcca tcccacaaca ctaggattgt ggaatcaagg aatgcaaagt 300

ttcttgaaaa tgacttgatc agtgggagtg atcaatttca gaacatttct tctgaaaggg 360

atcactatga agctgaacct tctgggacaa gtaataggtt ggtagtcatt cccacccctc 420

aagttaaaat gggtggtaga caaccagtga ttgaagttca caagct 466

<210> 5566
<211> 421
<212> DNA
<213> Glycine max

<400> 5566

taagtgttta ggcttattcc atcataaaca actaacacat tgttggacct tgtggcctca 60

ataacttacg aaggggtgaa ttaattttcc actaacaaaa ttttaacacc cttttaaaag 120

agataggctc aaaatgtaga agaagcaaca atgaatttaa taatgttctt taaacatgaa 180

agacacaatt gattgcaaca aaataaataa gataagggaa gagagaatgc aaacacagtt 240

ttatactggt ttggcaaaat ctgtgcctac gtctagtact caagcaactc acttgagatt 300

ttcctttctc tttgtaaatt cctttacaac tgttgaacca cacacgaaca acccatccct 360

tgtgttcagg aatgcttaca acttaagaga ccctctgtcc cttaatgaat ctctttgtat 420

a 421

<210> 5567
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5567

agctttaccc acaacatctc tcgccaatgg aacactgtat agtgacactt ccaggatctt 60

tgtgctttgg gggaaggatt cattgaatga ctgcactaca atttccttcc acaactatcg 120

tatcattgtg gatataccgg ttcttctttg tcagcatgtc ttttaaaaat ttggcataga 180

gtggcatctg ttgaagagct tctccaaaag gcaaagtgat ctctagcttc ttgaagatgt 240

caagaaatct ggctaagtgt cgctctttat ccttcttgga agttaccatt ggatatggta 300

cttccttttct ttcagctaaa ttaatctctc tctntgtgtc tctcgaaacc tcactctggc 360

tcttcttttt ctgctcatca accttctctn tntcttntca attttctgaa ttttttcttt 420

ttctacttct tctt 434

<210> 5568
<211> 356
<212> DNA
<213> Glycine max

<400> 5568

tccattgttc aatttcgagc gtctcgatat cttatgcgcc tgaatctgac ctccgtgtga 60

aaagttatga ccatctgaat ttctcgagag cttccgttgt tcaattttga gcgtcttgat 120

atattatacg cctgaatcgg acctccgagt gaaacattat gaccatttga attgctcaag 180

agcttccatt gttcaatatc gagcgactcg atttattatg cgccggaatc ggaccttcta 240

gtgaaaagtt atgaccatgt gaatttctcg agagcttccg ttgttcaatt tcgagtgtct 300

cgatatatta tgcgcctgaa tctgacttcc gcgtgaaaac gtttgaccat atgaat 356

<210> 5569
<211> 409
<212> DNA
<213> Glycine max

<400> 5569

agctttgagc aattcaaatg gtcattgctt ttcactcgga tgtccgattc aggcgcataa 60

tatatcgaga cgttcgaaat tgaacaatgg aagctcttga gcaattcaaa tgatcataac 120

ttttcactag gatgttcgat tcaggcacat aatatatcga gacgctcgaa attgaacaac 180

ggaagctctc gagaaattca aatggtcata acttttcaca cggaggtcag attcaggcgc 240

acaatatatc gagacgttcg aaattgaaca atggaagctc ttcagcaatt taaatggtca 300

taacttttca ctcggatgtc cgattcaggc gcataatata tcgagacgct cgaaattgaa 360

caacggaagc tctcgagaaa ttcaaatggt cataactttt cactcggat 409

<210> 5570
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5570

tctatagatg gttcgttcct aatttctcta ctattgcatt ttctctcaat gagctagtga 60

agaagaatgt tgcatttacc tgnggtgaaa aacaatagca agcctttgct ttgctcaaag 120

aaaagcttac taaggcacat gttctagctc ttcctgactt ttctaaaact tttgagctag 180

aatgtgatgc ctctggagtg ggagttggag ctatattgtt aaaaggtggg caccctattg 240

cttattttag tgaaaaactt catagtgcca ccctcaacta ccccacctat gataaagagc 300

tttatgcctt aataagagcc ctccaaactt gggaacatta ccttgnttcc aaggaatttg 360

tcatttatag tgatcatcaa tcacttaagt acattaggtg gaaaaacaag ttaaacaagt 420

ggcatgcaaa atg 433

<210> 5571
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5571

agcttcaata cagtgacacc agtgtttcat tttangagct gacaaagtct tttggatggg 60

atacatatga ttctttcatg cagcatgatg ttcaagaact aaatcgggtt ctttgtgaaa 120

aacttgaaga caaaatgaag gtatggcaag agttttggaa tatttgttca tgattattct 180

tgatgggtga ccatatcaaa tggttgtttt gtgttatttg tcttcaggga actgttgttg 240

agggaaccat acaaaaatta tttgaagggc accatatgaa ttacatagaa tgcatcaatg 300

tagactacaa atcaactaga aaggagtcat tttatggtac ttccttatgc attttgaatt 360

caattatatg ttttgttctt ccttgttatg tatttctaat ttagttttgc atatgcatgt 420

tagaccttca gcttgat 437

<210> 5572
<211> 459
<212> DNA
<213> Glycine max

<400> 5572

agcttatcac cacactcctt caaaccactg gccacaccac caacaacttc agcttcgtga 60

atctcacttg cgactcccaa tttggcgtca tctcgatcct cttccccgca ccgtactctc 120

cctctaatgc caccatcctc ttcttcataa agaagcgtga tggcactaga aaaccactga 180

gcgccactac gctgaacttt ctcctcatcg gtagggacac atcgttggtg gcgctaagct 240

ggttcttctg actcttcatg aaccacccca tcgtggaaga aaagatcctc gcagagctaa 300

cgttggtgct tacttccact catggcggcg accgacgaca ctggatggag gaggcaatgg 360

acttcgaaga agcagagaaa cttgtttagt taaaagcagt gttagccgaa acgctacgtg 420

ataataagtt ttatgttaaa taataaaata attttaaaa 459

<210> 5573
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5573

tcaacattca atntcgagcg tctcgatata ttacgagact ctatcagaca tcagagaaaa 60

acgttattgt cgtctgaatt tgctcagagc ttcaacattc aatttcgagc atctcgatat 120

gttacgggac tcaatcagac atccgagaaa aaagttattg tcgattgaat tagctcagaa 180

gttcaacatt caatttcgag cgtctcgata tgttacggga ctcaatcata cattcgagaa 240

aaaattattg ccgttgaatt tgacacaggt taacattcaa tttccagcgc tcgatatgta 300

cggggctcaa tagacatccg agtaaaagta ttgtcgttga ttgctcaaga ttcacattaa 360

tacgagcgtt cgatatgtac ggactcatcg acatcgagaa aaagtatgcg ttgaatggct 420

ca 422

<210> 5574
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5574

agcttccatt ntcaattaca agcgtttcga tatattactg gactcaatcg gacattcgag 60

taaaaagtta ttgttatttg aatttgttca cagcttctgt attcaatttt gagcgtcttg 120

atatattttg ggactcaatc ggacatccgt gttaaaagtt attgtcgttt gcatttgcta 180

cgagcttccg ttttcaatta cgagcgtctc gatatattac gaaactcaat ccaacctccg 240

agttaaaagt tattgtcgtt agcatttgct acgagcttcc gttttcaatt acgagcgtct 300

ctatatatta cgggacttaa tccaacctcc gagataaaag ttattgtcat tagaatttgc 360

tacgagcttt cgttttcagg ttctagtgtc ttgatatatt acgggactta atcgaacatt 420

cgagttaaaa gata 434

<210> 5575
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5575

nganacaggg cttgataaag agctattggt attccaatat gataagccag atatgcaagg 60

caatctcttt aactccacaa agctatntct gaaatatgct gaagatgaaa ttgtacggat 120

gaaagcagat gagagataag ccttgtacct tcgaaaagaa gttactgaat actttcatgg 180

gaatgccaca aaggaagaag cccaccctct cataattttc atgattagaa cagacttttt 240

gaatatctcg gatctagtgt gcaaagaagt ggaaaagatg catgatagaa ttgttggtgg 300

ttctggcaga tccttccaaa tacctcctaa tgcatcatta cctgttgcta acatgtacaa 360

tcatcgacag caagatagaa gctcatatga cgaaagctca tct 403

<210> 5576

<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5576

tactcgaatg tctgattgag tccccgaaca tatcgagacg ctcgaaattg aatgttgaac 60

ttttgagcta attcaatcga caataaaatt tttctcggat gtctggttga gtcccgtagc 120

atatctagac gctcgaaatt gaatgttgaa cctcttagct aattcaaacg acaataactc 180

ttttcacgga tgtctgattg agtcccgtaa catatcgaga cgctcgaaat tgaatgtnga 240

agctctgagc caattcaaac aaccataact tttntctcgg atgtctgatt gagttccgta 300

atata 305

<210> 5577
<211> 434
<212> DNA
<213> Glycine max

<400> 5577

agcttaaaca ttcaatttcg agcgtctcga ttatttttgg actcaatcaa acatccgaga 60

aaaaagttat tgtcgtttga atttgcacag aggttaaaca ttcaatttcg agcgtctcgt 120

tatataacgg gaatcaatca gatatccgag taaaaagtta ttgtcgtttg aattggctga 180

gagcttcaac attcactttc gagcgtctcg atatgttacg ggactcaatc agacatccga 240

gtaaaaactt attgtcgttt gaattggctc agagattcca cattcaattt cgagcgtctc 300

gatatgttac gggactcaat tagacatccg agtaaaaagt tattgtcgtt tgaattggct 360

caaagcttct acattcaatt tcgagcgtct cgatatgtta cgggactcaa tgagacatcc 420

cagtaaaaag ttat 434

<210> 5578
<211> 431
<212> DNA
<213> Glycine max

<400> 5578

ctggccacca cggagtttcc gactatggtc ttgtgtggtg gaacaagcta caaaaggaga 60

gagcaagaaa tgaagagcca atggttgata catggacgga gatgaataag atcatgagga 120

agcggtatgt gccggctagt tactcaattg acttgaaatt caagctccaa aaactaaccc 180

aaggcaacaa gggggttgag gagtatttca aggaaatgga tgtgctcatg attcaagcaa 240

atattgaaga agatgaggag gtaactatgg ctcgatttct taatggtttg actaatgata 300

tccgtgatat tgttgagctg caggagtttg ttgaaatgga tgatttgctt cacaaagcaa 360

tccaagtgga gcaacaatta aaaaggaagg gagtggtaaa aggagtttac caactttggt 420

cttctagtgg a 431

<210> 5579
<211> 420
<212> DNA
<213> Glycine max

<400> 5579

agcttctatg gataatgtta gtgttatcat tgctattctt agaagctttg aaatagcttc 60

tggcctgaga atcaattctg ccaagagcca actgggagca attggtcaat ctgatcagtg 120

gatcagatgt gctgctgatc tcttgaattg tggtccactg cagcttcctt tctgctacct 180

agggctgcct ataggtgtca atccgagaag gaaggtggtg tgggaaccta ttatcaacaa 240

atttgaggct aaactgaaca aatggaggca gagaagtata tccatggctg gtagaatcac 300

cctaactaat gctgtcttaa cagctctgcc attgttttac atgtcttttt tcagggctcc 360

ttcagcagtg attaacaagc tcatttccat ccaaagaaag tttctttggg gtggtaacca 420

<210> 5580
<211> 395
<212> DNA
<213> Glycine max

<400> 5580

agcttgaaat tgaacaacgg aagctctcga tatattcaaa tggtcttaac ttttcactcg 60

gatgtccgat tcaggctata tcgagacgct cgaaattcaa caatggaagc tctcgagaaa 120

ttcaaatggt cttaacttat cactcggatg tccgattcag gtgcataata tatcgagacg 180

ctcgaaattg agcaacggaa gctcttgagt aattcaaatg gtcataactt ttaacccgga 240

tgaccgattt aggacatcac atatagagaa tctcgaaatt gaacaacgga agctctcgag 300

agtttcaaat ggtcataact tttcactcgg aggtcagatt caggcgcatt atatatctag 360

acgctcgaaa ttgaacaacg gaagctctcg tgaaa 395

<210> 5581
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5581

cttaagcacc gcagctgcag ctctataaac cacacttttt tatatggctt gancagngcg 60

aacttacgtt tgaatactct atacatgcag acacatgcaa cacattatgt tttcactgat 120

aataaaaaga gaaatgttta gaaacacggt gactcgctct atcgaatata tccccctttca 180

tttggtcgaa aatttttaaa atgaaaaaag tttgcgaatc ctactcaata attaacgacg 240

ttttccttct aactttatgc acaaaaaact tgtttaatag agcgtgttct tatggcttat 300

caaataaaaa aataaaacat acatgcacgt caataagtca ctactcggtc tatgctgaca 360

ggttagaaag taatctacat tgggaagtgt gatgctaaca ttctattttg ttcgattgaa 420

aaaactgcgt actttctt 438

<210> 5582
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5582

ggccgccacg gagttntccg actatgctct tgtgtggtgg tacaagctac aaaaggagag 60

agcaagaaat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120

gcggtatgtg ccggctagtt actcaaggga ctngaaattc aagctccaaa aactaaccca 180

aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240

gattgaagaa gatgaggagg tgactatggc tcgatttctt aatggtttgg ctaatgatat 300

ccgtgatatt gttgagctgc acgagtttgt tgaaatggat gatttgcttc acaaagcaat 360

ccaagtagag caacaattat aaaggaaggg agtgact 397

<210> 5583
<211> 387

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5583

agcttaaata ggtgggtttg tccgttctcg ctagcttagn gcaaatttga atcgcttagc 60

acacataagt ggattttggt ttagcgtgct tctctcgctt agtggatgag ctgaagcggt 120

tcgcttgatg acctggagca gtgcgctcag tgaacctgac aactcatctt cttctagatt 180

cttcctcacg cttaaatagc aagttctcat ctacctccat ggcttcctat ggtggtgagc 240

ttgttcttga ctcatcttct ccttgaagtg gcatctacaa tcagctttct tccttctcca 300

ttcaactacc attgatcttc aagaagcaaa agactccatt gatgaagaag attcaaggcc 360

cacgagctct acatggagct tcattag 387

<210> 5584
<211> 271
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5584

agcttacacc agtatcggat gtatattact tttggagaca tattggtaca acttctaact 60

ggaagacccc ttttggggct agttagagat atgaaatgtg cattggaaaa ggaaaacctt 120

aaagcagtct tggactcttc agctggtgaa tggccgtttt ttcaaactga acagctggca 180

tatttagcat tgaggtgttg tgaaaagact tggttgaacc ggccagacct tgtgtctgaa 240

atctggagtg ttcttgaacc attcanagca a 271

<210> 5585
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5585

agcttcggaa aggtctggag ggagttatag atgtatgatt cttagacngc acgggacaag 60

gcgatgatgc tattccggta cttgcgagaa aaagacatgt ttgagaagta ttacaatctg 120

catatggcaa agcggctttt gtcgggaaaa acagtttctg atgatgcaga aagaagtctc 180

atagtcaggc tcaagaccga atgcggttat caattcacct ctaaattaga gggcatgctt 240

accgacatga aaacctctct agaaacaatg cagggctttt atgccagcca ccctgagtta 300

agtgacagtc ctacacttac cgtgcaggat ttgacctcag ggttttggcc tactcaatct 360

actgctatat 370

<210> 5586
<211> 384
<212> DNA
<213> Glycine max

<400> 5586

agcttgtgaa ggaatacctt gaagattatt ccttaccagt agtaattgac cgtaactttg 60

tgattgatgc gctaccttcg ggaaaaatca atgaccttcg caaaaatata aagctggtaa 120

tgggcgttgg gtttgcaaag gagtgctacg aggtgtactg taactggagg agggaaagct 180

taaaggagtg cttaataaat ttattaggct tgccagagat taatgtggag gagaaaagta 240

gattgttgga atttgaaaat tacattctta gaagacgtat tgaggctatc caggtcgctc 300

ttggaacact aattcccagt gagcgacgac tctgtgatag cgtcttccag gggttctctt 360

atgtggctga tctttgtttc actg 384

<210> 5587
<211> 410
<212> DNA
<213> Glycine max

<400> 5587

tgaggcatgc aagcttgtgc atccaatacc ctgatgtgga tgttttatat tttcttaaaa 60

ctggactgat gcatttgctt ccaaagtttc atggccttgc acgtgaagac ccgcacaaac 120

atctgaaaga attccatatt gtctgctcca ccatgaaacc cccagatgtc cagaaggatc 180

acatatttct gaaggccttt cctcattctt tagagggagt gacaaaggac tggctttatt 240

accttgctcc acagtccatc acgagttggg atgacgtcaa aagagtattc ttagaaaaaa 300

ttttccctgc ttcgagaacc acgaccatca aaaaggatat ttcaggcatt agacaactca 360

gtggagagag cttatatgaa tattgggaga gatttaagaa actatgtgcc 410

<210> 5588

<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5588

agctttgaaa aaggaaggtg gtgtatantc tttataacaa gctcgggaat attttgagag 60

cgtgtgcgca aaatattaat taataccatg tgtcagaatg gtatattttg ttttaccgca 120

tgttaaagtg acatatttaa tcatttttca tatattttac taagttttat caacctaaca 180

attgaataat gttatttaaa cttgttattc agaagaaaaa aacatgttat ttaaatttga 240

tgattatgca tattaaattn taaataaccc agggattcat aaatcataaa tatgtaattt 300

aatagtattg cttattggaa atagcatatt atacattaaa ataaaacaat ttatttagaa 360

ttaaatagat ctttaattaa gactatg 387

<210> 5589
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5589

agcttcaaga ataanggttc tagcttattt cttattccca gaaggaaatt caataaatag 60

gcctcctatt tttaatggag agggttacca ctactggaaa acccgaatgc aaattttcat 120

tgaggcaata gacttaaaca tttgggatgc catataagtt ggaccttatg tacccaccat 180

ggtggctgga aatacaatag agaaacctag agaagagtgg tctgaagatg aaagaagatt 240

agtgcagtat aatttaaagg ctaaaaatat tattacttct gccctaggaa tggatgaata 300

ttctatggtt tcaaattgta agagtgctaa cgatatgtgg gacactctac aagttacaca 360

tgagggaaca actgatg 377

<210> 5590
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5590

agcttttcaa gcccnattta cngcgtttac taccttngcc ggcnggggaa ttgcgaactt 60

tgatcaaaca tttgaggtta ctaccgacgc gtcaaattct gttgttggag cagttttatc 120

tcagcaatcc catcccattg ctttttttcag tcgcaagata tgtcccaaaa tgcgggctgc 180

atctgcttat gagagggaaa tgtttgctgt tacggctgca gtcaaaaagt ggcgacatta 240

tctcttggga aggcattttt tcatttatac ggatcatcgc agtttaaagg aattgataac 300

gcagacgatt cagacgccga cacaacatat gtggttaact aagctattgg gtttaactat 360

gagattgata caccccggaa agaccaac 388

<210> 5591
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5591

agcttgccac cacgaagttt tccgattatg cttttgtgtg gnggaacaag ctacaaaaag 60

agagagcaag aaatgaagag ccaattgttg atacatgggc ggagatgaaa aggatcatga 120

ggaagcggta tgtgccggct agttactcaa gggatttgaa attcaagctc caaaaactaa 180

cccaaggcaa caaggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240

caaagattga aaaagatgag gaggtaacta tggctcaatt tcttaatgtt ttgactaatg 300

atattcgtga tattgttgag ctgcacgagt ttgttgaaat ggatgatttg cttcacaaag 360

caatccaagt agagcaacaa ttaaaaagga aagga 395

<210> 5592
<211> 332
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5592

agcttcttag ttgcagatta ttctttttat tttgnggcta cctcatgcac tgctctaatg 60

actatagcat catttctggc gctaaactgc ttgggccaac aacattttga aaataatgct 120

gttgatgttg ccgctgttgt ggaggactcc atcatctaag gttgggatga ttcctccacc 180

cgagatggtt cctgttgctg gagaggtcat aattgctctg ccgtggctga ttttgctgtt 240

gaggttgagg aagtctattg tatatgacgg cagcatatgc ttcaagctgt ccaattgctg 300

cacagaaagg cgaaggtctg tatggtggtc aa 332

<210> 5593
<211> 365
<212> DNA
<213> Glycine max

<400> 5593

agcttcttgg tttctccgtt gaatgtgaag aaaaaatgtg gatttatgag ggcatgccca 60

accaaagctt gaactactgt gtttttggtt ggacccctta caatttattc taaacatcag 120

ctgaaatctt ctttaaagaa ttgtggagac agaaactgct attcctaata tgtgtgtatt 180

tgactagctg aaaccaaaag gaagttgcat tgcgagggga cttctttatc ttcaccaaga 240

cttcaggctg aggattattc acagggatct aaaaactagc catattttgc tggatgcaaa 300

tttggatcca aaaatatcag actttcgctt ggctcgatca ttttgggaga ccaagtgagg 360

gaaac 365

<210> 5594
<211> 397
<212> DNA
<213> Glycine max

<400> 5594

agctttgaac catacaagga caacctttt ctttgtgttc agattgcttt acaacaagag 60

acccttggtc tcttaatccc ttttcagaaa taagatgaag agaagaagaa atctctcttg 120

aaagagatag attgaacaat ggagcactca aataattcct tattgaattg caagtgtatt 180

ggccaaggaa tttttaagag gataagacaa ttttggtttt gagaggataa gacctttttg 240

ttctaaaaaa ctctaagcaa atttgtgttc caagtcacat ataaatagac ccttgatggc 300

cattcaaaaa ccatttgaac agatgtgact cttggaaatt atttttgaa aatctcctct 360

ggtaatcgat tacaagattt gggtaatcga ctatagg 397

<210> 5595
<211> 391
<212> DNA
<213> Glycine max

<400> 5595

agcttcaaca ttcaattttg agcggttcgt attattacgg gactcaatca gacatccgag 60

taaaaattta ttgtcgtttg gattggctca gagattcaac attcaatttc gagcgtctcc 120

atatattacg ggactcattc agacatccga gtaaaaagtt attgtagttt gaattagctt 180

agagcttcaa caatcaattt cgagtgtctc gttatatcac gagactcaat cagacatccg 240

agtaaaaagt tattgtcgtt tgaattggct cagagcttcc acattcaatt tcgagcgtct 300

caatatatta cgggcctcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaattggc 360

tcagagcttc aacattcaat ttcgagcgtc t 391

<210> 5596
<211> 355
<212> DNA
<213> Glycine max

<400> 5596

agcttatccg tagaggtgtt ggacttttc aggtcttgga gaggagcaat aacaatgtct 60

ataggttgga cctcccataa gagtatgcag ttagaacttt ataggtggag ctaatactga 120

ggagcatgaa ccaacagatt tgaggtcaaa tcctcttcaa aggggagtgg gtgatgcaat 180

cctccctagg aagggactag tcaccaaagc catgaacaag aggctccaag aggattgggc 240

tagagctgtt gtagaaggcc ctaggattct catgaacctt acggtagatt tctgagccca 300

tgggccatgt tgtgtccact tatctgtgta catattagat taggatttca ttatt 355

<210> 5597
<211> 390
<212> DNA
<213> Glycine max

<400> 5597

agcttgaact ctaaaggtat acttttataa actaagagtt ttcatttaag taagagtaag 60

acagaataaa agttaaattg ggagaagatg tcatatcaca ggttttctaa gtttggatat 120

ctaggattca tcatataaaa ggatggagaa attaatgagg atgtatagga tacatgtggg 180

atggcttaaa tggtgaaaag catcgagggt tatttgtgat tgccaagtgt ctaccaagct 240

caaaggcaaa ttttattgga caactatacg tccaactata ctatatgata gtgaatgttg 300

ggttttaaag ggacaacatg agagaaaagt gagatttgca gaaatgacga tgttaagatg 360

gatgtgtggt gatataagac aagataaaaa 390

<210> 5598
<211> 392
<212> DNA
<213> Glycine max

<400> 5598

agctttgcta atgtcgattt tcaaattctt tttattgtct ttccttttg tgggcatccc 60

atatggtgaa tatatttagt ggcacacatt ctctctgctc tccctaaata ttttttaaa 120

aaaatttaag aatgagtggg agagagaaat aaatgagttt taaaatataa acattaaatt 180

accttattat ccgtaaataa atttattatc ataaaataag tagttaagtt ttttgtccaa 240

ataatttggt atgttaacat acccctttat atttatatct tttttatttc ttaaaacata 300

attttgaact atactttcta aaacaacata tatcaattcc ataaagtaat ttttaggact 360

atgttttaat aaaatacaca taattatgga at 392

<210> 5599
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5599

agcttggatt tcctttntgg agggattcta tctttcctaa gatggagcca aacccagtca 60

ccctcattaa gaactagctc ttttcttcct ctattgccta tagttgaata caccttttgtt 120

tggttctcta tttggttctt aaccctctca tgcaacttct ttacaaattc tgacctagat 180

tccccttctt tatgtataaa agaagtgtct agtgggatgg gaatgaggtc taacggtgtt 240

aggggattga acccatagac aacctcaaaa ggggactgct tggtggttct atgaaccccc 300

ctgttgtagg caaattctac atgaggaaga tactcatccc aagtcttatg gttgcctttc 360

agaagagccc ttaaaagggt ggataaagac ctattcac 398

<210> 5600
<211> 405
<212> DNA
<213> Glycine max

<400> 5600

gacctgcagc atgcaagctg gattgaagaa atggaagtac tatataattc gaaataggat 60

caatgaagat caacaaagta tggactttag ttgaagtttc aaaggatata aaaccaattg 120

gttggaaatg agtttacaag aaaaggattg gagcagattg gaagattgaa acctacaaaa 180

cgcatcttgt tgccaaggga tattgtcaaa aggaaggtat agattatgat gaaacttctc 240

tcgtggaaat gctcaaatta attcggatta tttttgctat agtagcatac tatgatcatg 300

aaatatgaaa tggatgtggg aaatgtcttt ccttaacggt gagctaaaaa aaggtgtgta 360

tatgacacaa ctcaagggat tcacatcctt gtttgatcat aataa 405

<210> 5601
<211> 388
<212> DNA
<213> Glycine max

<400> 5601

agctttgctt ctacacactc attctatgaa atatcttgcg gacatgggaa gaggtggtgt 60

agaagttctt gaataaatat tttccagtgt ccaagaccac tgaggggaag gtggaaatct 120

catcattcca tcaattccct aatgaatcaa tgagtaaagc tcttgaccac ttccatggtt 180

tactctagaa gacctctact catggattta gtgagcctat tcaactaaat atattcattg 240

atggcctgtg accccatttg aagcagcttc ttgatgcatc tgctagtgga aagatcaaat 300

tgaaaacaca tgatgaaact atggagttga ttgaaaacat ggcagacagt gaccatgcca 360

tcctttgtga ccgagcttac acatcgac 388

<210> 5602
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5602

gcagcttagc ttctgtgccc ngacttttgg ttattatcta taacggacag agaaggatac 60

ttctttctgg ctccattcac taccccagaa gcacccctga ggtattacac tcaaatgtat 120

ttcaggtttc tttccatttt ggccttttt ttttttatc aaatgggcac cttaaagtat 180

cttccttttt tcagatgagg ccagatctta ttcaaaaggc aaacgaagga ggtttggatg 240

tcattcaaac ttatgttttc tggaatggac atgaaccttc acctggcaaa gtaatgaata 300

atgtttgctt gcagtgnttg aaaaaaatgc atttttttgt cgctattatc tattntaaca 360

agtttagctg tttttgttgg ta 382

<210> 5603
<211> 354
<212> DNA
<213> Glycine max

<400> 5603

agctttgagc aaaatcattc gatattttct ttttactcgg atctctgaat gagtcgcgta 60

atatatcgag atcctcgtaa ttgctaacgg aggctctgag aaatttctaa cgacattaac 120

tttgtactcg gatgttcgat tgtgtcccgt aatatatcga gacgctcgaa attcaaaata 180

gaagctttga gcaaaatcga acgacaatta cttttgactc ggatgtccga tggagtcctg 240

taatatatcg agacactaaa aattgaaaac cgaggcgctg agaaaattca aacgacaata 300

acttttttaca caatcatgat gcttaaaatt cacaacagaa gctctgacat aaat 354

<210> 5604
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5604

agctngtaca ctttatttta ttncataatt nnganngcag aactcgagca cagtttatct 60

ggtccaaata ccgctaagga acagngggag caggaacaat ttgcaatttt ctgcgaacat 120

cttccaagtc ttcatgaaaa tgttgctcat aatatacaca cataagatca gtcgattgca 180

tgccagcacg aatggcccaa gggaagtagt gctgataaaa caattttctc tgcttttcat 240

tgaatctagc cgtgcccccc ataacggaca gcagacacat aggaaggccc atctgctcaa 300

attcaatgag cttcagtgct tgctccccaa tcaag 335

<210> 5605
<211> 395
<212> DNA
<213> Glycine max

<400> 5605

agcttcaagt agagggaata tgatgtataa gattaatatg actatggcta tgatcactac 60

aaacaatacc caagtttcag gagaatcctg cagtccatat gccctattga gggaagggac 120

aataaatttg cacccttgga ttttcaaacc ccaaaaagat ttgacaatca ctacttcata 180

aacattcttg aagggaaagg cttgttagat tctaacaatg ttcttatcaa ccatgactta 240

gatggaaaga ttacagagca gatgtgggct tatgcctcta atgaaaaact tttgtttgct 300

tcatttgcta aatctatgat taagatggga aacatcaatg ttcttacagg aaatgagggg 360

gaaattagga ggaattatag gtttgtcaat gctta 395

<210> 5606
<211> 343
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5606

agctagattg gctgatttta tattttattg caaccagacc tgacattgng tttgtagtaa 60

gtatactttc aaggttcatg tattgtgcta gtgaagttca tcttcaagct gccaaacgag 120

ttattagata tgttaaaggc actttagact atggtataat gtactctcat tctcataatt 180

ttaagctcca tgaatattct gatagtgact gggcatgttg tattgatgac atgagaagca 240

cctctggata ttgattttcc tttgggtctg gagtcttttc ttggtgttct aaaaagcaag 300

aaagtgtatc tcaatcaact gcaaaagcaa agtatgtaac tgc 343

<210> 5607
<211> 315
<212> DNA
<213> Glycine max

<400> 5607

tgtcctcggt gacgaagaca attgaattag ccccttctag ctttgcacag gcgtcaacga 60

ttctcaaaat gaagggtctg tgtttggaag tggcgatgag gtggagaaca acctctgtgt 120

atgaggtggt gttgaagatg gacccgctgt actcaatgtt tgttcacagg gtacagtaaa 180

ttataaagtt gccgttgtgg gccacgccga cggagccgaa gctgtatccg gcgactaaag 240

gtagcacgtt tattagcatg gattggccgg cggtggagta tctgtcttgg ccgatggcga 300

ggctgcctgg gagct 315

<210> 5608
<211> 361
<212> DNA
<213> Glycine max

<400> 5608

agctttgatc taacaccgcc acttctacca tcatcttaga tttctattat gttaatatta 60

ttagtacttt aatctccagc cgtgtatttg gctatattat gatgatattt gaacaattta 120

atatttcttt atttgcatgg tatgtttgaa caaatattaa ttacgttatt tgactatgtg 180

gattttatat ttgatctatt catggttctt gcttcatggt tcttgcttta tgatttggtt 240

tatatttttc atgaatgttg tgtgaatgct tagttgatat ttgtatgtta cgcactttgg 300

ctttttgttg atgccaaagg gggagagaaa tagggatgaa atcaacaaga aataaggatt 360

a 361

<210> 5609
<211> 316
<212> DNA
<213> Glycine max

<400> 5609

ttttattgtt gtttagatgg atattttggc tatttgcaaa ttccaattgc taggagggac 60

caagaaaaaa ctacttttac atgtccctat ggaacttttg catatagacg gatgtcattt 120

gaactttgta atactcctgc tacttttcaa agatgcatga tgtctatttt atttatttat 180

ttaattgagt cttgcattga aatactcatg gatgatgttt ctatttttgg aacttgtttt 240

gacacatggt tgcataactt gaatgtggtc ttgaaaaggt gtagggatac aaggttagtc 300

ttgaacttgg aaaact 316

<210> 5610
<211> 357
<212> DNA
<213> Glycine max

<400> 5610

agcttactcc tcattttatc agttcttacc aaatcgtaaa aagagtcaac ggagttgcct 60

attaaattgc cttgtcacca tccctctcaa atctcaatag tgtcttccat gtctcccaac 120

tcagaaaata tatctatgat ccattaccaa tgaggattga ggaaaaaatg gtgaaacaac 180

taagagagaa ggatattcct ttgatcaagt ttgtgagcgg aggagctact aaagatagtg 240

ctacatggga gttggaaagc cacatgggag aatcatatct tggtttgttc ttttcagcta 300

aatttcaagg acaaaatttc ttttaaggag gggggaattg taacatcctt ctatttt 357

<210> 5611
<211> 317
<212> DNA
<213> Glycine max

<400> 5611

agctttacta tgcagagaat attcaaggaa aataccttca tctgacttag catcaaattt 60

tcctaagtta tcttttccat tattcaatac aaaacattta caaccaaaga tatgaagatg 120

agagatgttt ggttttctgc cattgaccaa ttcatatgga gttttcttta aaatgggtct 180

tattaaagcc ctatttaaac tgtagcatgc agtgttaacg gcttcagccc aaaagtattt 240

tggaagagga gtatcattta ataaagttct agcaatctct tccaaagatc tatttttcct 300

ttcaacaaca ccatttt 317

<210> 5612
<211> 305
<212> DNA
<213> Glycine max

<400> 5612

tttacctttc attttaaccc ttaaaacttc cctgccaaaa ttgtcataga taaagcaatg 60

ttgatgttca aaggacactt taaatccctt tttaatcaac tgacctacac ttagcaagtt 120

ttggtcaatg ttaggtacat aaagaacatc tgatattaat ttggtacctg aacacgttga 180

aattgcaaca gttccttttc cttttactgg aatatagcca ccattcccaa ttctgacctt 240

tgagacatta gttggcttca aatccttgaa tagagtctta tcatttgtca tgtggttcgt 300

acaac 305

<210> 5613
<211> 325

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5613

agctttagtg ngtagtgtca agttttaggg tttactgtgt agggtctaat ccttatggtt 60

taggatttag ggtgtagggg ttatggttta aaatttaaag gtaatggttt agggtcaagt 120

cttagcgttt agggtttagg ttttacggtt tagggttgaa ataaaattac tccaaactca 180

tatgcatcta atgaaataaa attacattta gaagttgaaa taaatggagt ggatcaagcc 240

aggttgagtg actttagtta tccataagta aaccttaata aactgaatac catacattac 300

gtgtgaaatt caaatgagaa attta 325

<210> 5614
<211> 360
<212> DNA
<213> Glycine max

<400> 5614

agcttcaaag actaattcaa ggatataaga gtgtggacga gtattacaaa gggattgaga 60

tttccttgat tagggctcaa attgaagagt atcaagaggc taccatggca aggtttttgc 120

atggtctcaa taaggtaatc caagacatta tagagttacg ccactatgcc tcttttgga 180

ggatctcatt catgaaacta tcaaggtgga gcaacaatta aaagggaaac aaatatacaa 240

gaagtccccc tatgtgtctt caacatagga ggataaggag acattcaaga agaagggagg 300

atcttcattc aaatctcatg agaaagatgc tgcacttagt aaaaataatt taaaccctac 360

<210> 5615
<211> 313
<212> DNA
<213> Glycine max

<400> 5615

tttatataac aaagtgaaga tattaaaatc acacagaagt aggcttgaaa aaatgacata 60

aagtttttta ttatgaaaaa caattgatta aatatttgtt gtatataaaa tattatcaaa 120

tcaatcataa gagttgatat tatcaaaacc aataacttaa aacataatat taacattaat 180

tttcaattac ttcaaattat caataattaa aaacaaataa tttaaaacaa tatttcaaaa 240

tgcatggtat aagagacata tctagtggag gactgtttct atatgagaat gggaggtgaa 300

atattgtgaa ctt 313

<210> 5616
<211> 283
<212> DNA
<213> Glycine max

<400> 5616

tctggtcggt gctgattctt ggtatacccc ttttacacct tcatgtacct ttcaattgga 60

tacgtccagc gtaaaaatat aggaccacac aactggatct ccctgactag atgaacaatt 120

atgtgaacca ttatgtcgaa aaatgatgga ggaaagtaca tctccatttg acaaaggaaa 180

atggcgacct cgttctccaa ttcatccaat cttgcagggt caataacttt gctacatata 240

gcattaaaaa caaagccttg accagttatg gcttccccaa aat 283

<210> 5617
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5617

ggagagggga tgaaattttt ccaactctcc taatgtctat cgaggagtcc gaggtttcgg 60

tgatcttctt gtccataaac tacatatgcc acttctaagt ggtgcttgga agagctcgtg 120

aaaattatgg aatgcaaaaa aacaaagggt caaatcgtga tacccatttt ttatcatgta 180

gatccggcag atgtgcggaa ccagaccgga agttatgcag atgcttttgt gaaacatgaa 240

caacnnctna naaacaacnn ncaaaangnn naaccccnga aagacacnnc gagagaagca 300

gccaacctct ctggattgga ttgcttggtc aacangtttt tttccaatta a 351

<210> 5618
<211> 325
<212> DNA
<213> Glycine max

<400> 5618

tcttcttgac tcatctactc cttgaagtgg tgtctccaat catctttctt ctccattccg 60

ctaccatgat cttcaagaag caaaggactc cattgatgaa gaagatccaa ggactacaag 120

ctccacatgg aagctcgaca atggacacaa aagccataac atttgactca aatgtttgat 180

ttacgaaagc tcagagaaaa ttcagactgt cataactttt gacttgaatg tctgattgcg 240

tactataata tatcgagata gtcgaagttg aacacggaag ctcctagcaa actcaaacta 300

ccataacttt ttattcaaat gtctg 325

<210> 5619
<211> 318
<212> DNA
<213> Glycine max

<400> 5619

tgacaattat tatttattac atttaacttt ctctcccaaa aatgctgtgt ttagggaaca 60

ttaccaaatg gacaagaggt cgctgttaag aggctttcac aaacatctag acaaggatta 120

aaagaattta agaatgaggt tatgttatgt gccgaactcc aacatcgaaa tcttgttaaa 180

gttcttggat gttgcataca agatgatgag aaattgctca tatacgaata tatggctaac 240

aaaagcttag acgtctttct ttttggttag tgtctctaaa tttaattgtt aattgaatgt 300

tggatctatt atttcctt 318

<210> 5620
<211> 320
<212> DNA
<213> Glycine max

<400> 5620

tcaacatcag accacttcca gggtgctgga actacttcac atggacttga tggggcctat 60

gcaagttgaa agccttggag gaaagaggta tgcctatgtt gttgtggatg atttctccag 120

atttacctgg gtcaacttta tcagagagaa atcagaaacc tttgaagtat tcaaagagtt 180

gagtctaaga cttcaaagag aaaaagactg tgtcatcaag agaatcagga gtgaccatgg 240

cagagaattt gaaaacagca ggttcactga attctgcaca tctgaaggca tcactcatga 300

gttctctgca gccattacac 320

<210> 5621
<211> 378
<212> DNA
<213> Glycine max

<400> 5621

atccctaagc gaccgcagct gcagcttgca tacccttga tcttttatga aattacttgt 60

gaaagatagc catgagggtg ggctcatggg ccactttggg atagacaaaa cccttgtctt 120

actcaaagaa aagttttatt ggccccatat gaagaaagat gtccataagc attgcactag 180

gtgtgtggct tgtttacaag ccaagtctag ggtgatgcct catgggctat acacaccctt 240

acccatccca tctgcacctt gggtagacat tagtatggac tttgtccttg ggcttcctag 300

aacccaaaga ggtgtagact ctatctttgt ggtggtggat aggtttagca agatggcaca 360

ctttatacca ttccacaa 378

<210> 5622
<211> 313
<212> DNA
<213> Glycine max

<400> 5622

ttgatgcaac atttggagag gttaatgaaa ctacgagatg atgcactcca tgagaggttg 60

gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120

gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttcctccatt taaaggaaag 180

aatgatccgg aggcctactt ggagtgggag acgaaaatag agcatgtttt ctcatgcaac 240

aactatgagg aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300

gtgtggtgga aca 313

<210> 5623
<211> 356
<212> DNA
<213> Glycine max

<400> 5623

agcttgaaat tgaacttcgg atgttcttca gattctcaaa aggacatagc tgatcacacg 60

gaggtccaat tgaggcgcat aatatatcga gacgctcgaa attaaacaac gaatactctc 120

gagaaattca aatggtcgta acttatcaca cggaagtccg attcaggtgc ataatacatg 180

gagacgctca aaattgaacc acgaatgctc tcgagaaatt ccaatggtca taacttttca 240

aacggaagtc cgatttaggc gcataataca tcgagaatct tgaaattgaa caacggaagc 300

tatccagaaa ttcaaatggg cgttacttgt cacacggaag tccgattcaa gcgcat 356

<210> 5624
<211> 309
<212> DNA
<213> Glycine max

<400> 5624

tgaaggcaaa ctggatgcgt tggtcaactt ggtaacccag ttggccttga atcagaaatt 60

tttacctgtc gcaagggttt gtggtttgtg ctcctctgct gaccaccata cagacctttg 120

cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatattta 180

caatagacct cctcaacctc agcagcaaaa tcaaccacaa aagagcaatt atgacctttc 240

cagcaacaga tacaaccctg gatggaggaa tcaccctaac ctcagatggt ccagccctca 300

gcaacaaca 309

<210> 5625
<211> 341
<212> DNA
<213> Glycine max

<400> 5625

agcttaccat taattgtaca tcttttgtgg agaatatttt ccctttgggt gtcattcagt 60

ggctgcattt gactttccaa gagccttctc accattagta tatcaccctg catagcttcc 120

tcttcaagct catcctttgc ttcttcttct tcactaattt cagattcact agtgatttct 180

ccatctgcct tcatgatcat ggttttcttg gttggacagt cagaagcaat atgtcctctg 240

cctaagcatt tgaagcattt tatgtttctg gtactggtgt tggatgatga agcaaaatta 300

tgcttggttt tagcactgaa aactgttgac tttccatggg g 341

<210> 5626
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5626

agcttatgga gactttctcn tntttacaac aaggcctgct tgaccttctg actgctgaga 60

gctagagact tttctttctt aggtgcttcg tcttgttaaa gttcatgttc atgaacttaa 120

gagtaccaat taattcttta aaggaaattg agtcaagatt ctttaaaacc cttagtgttg 180

ttacttgtta atgtggctcc ttgtagagct tgtaggcctt ggatcttctt catcaatgaa 240

gtccttcgct tcttgaagat caatggcagc ggaatggaga aaaaggaaag gttattggag 300

atgccacttt aaggagaaga tgagtcaaga acaagctcac caccatagga agccatg 357

<210> 5627
<211> 354
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5627

agcttgccca aggtcttcta acttttcatc aatggtaggc atgggaaatg tgtccttcat 60

cgtgatggag ttcaaagccc tataatccat gcaacaacgc catgaaccat ttttttttct 120

taacgaggag gatgggtgaa gaaaatgggc tatggctggg ttggatcagg ccggccgcaa 180

gcatggagga gatttgggat tcaatctcgg ctttttggaa gtggggataa tggtagggtc 240

ggacattcac aggantgaaa ttgggaaaaa ggggaatatg gggctgaata ttgcggggcg 300

gaggtagggt ggttgggtca aggaagatgg cggagtaacg gtcaaggagg gtgg 354

<210> 5628
<211> 316
<212> DNA
<213> Glycine max

<400> 5628

ttgcaaagaa aaatgcagaa accaaaaaat acccctggtt ttcatacagc cgttgtccat 60

cgaggtactg aacaaaacca tcaatgagat atggaccaac ataagaagcc aaagtgttta 120

acaatacaag aaaagctgtg ataagaatct ccttccatgc tgaaattatt aacgacttca 180

ccaacttcag tgtggtgaca ctattaattc caccacaatc agcctcaact ttctctctga 240

aagttggaaa agtaccaatt acactatctc tgctgtctag ttgaggaaca tcctcaaggt 300

ccagggtctt ctgatt 316

<210> 5629
<211> 347

<212> DNA
<213> Glycine max

<400> 5629

agcttatcaa catcaaactt ggttaaagag ggcttggggt caagacatga gaagcaatca 60

agtataatgt tacttccttc actaaagcgg tgatctatct ccacacatat tttatcaata 120

gcaacataaa aaatctttgc acggtaatga tgaagattag tgatagtcat cccttctgct 180

cttgaacgac cccgaaccgg tatttcgtca tccatatttg gtaccggaat acttttagct 240

acacaaaatc cttggacatc ggcaaaaaaa ttattccagc cactctctct cattgtgccc 300

aaccgagctt tgacaacatc aactaattcc atggcaatca caatatt 347

<210> 5630
<211> 321
<212> DNA
<213> Glycine max

<400> 5630

ttggagtttc caagtgccaa ttcgtcttct ttttttgtcc agtcttcttc tggcttcaat 60

tcatcagtgg gctttccttc tgtgtcccgc atcttgggat gttcccagcc tttgatgaca 120

gctttccagg ttctgctatc cagcgatttg aggaaggcca ccatccttgc tttccagtat 180

tcatagttgg ttccatccag aattggtggt ctgttcactg gtcctccttc tttctccatg 240

ttcatcagaa tttatctccc tagatctcac tcagtgattt cgagtgcctg ctctgatacc 300

aattgaaatt ctgatatcaa t 321

<210> 5631
<211> 311
<212> DNA
<213> Glycine max

<400> 5631

tataatatat cgatacgctc gaaattaaac atcgggaact ctcgagaaat tcaatttgtc 60

atcatttttc acacggatgt ccgattcggg cgcataatat gtcgagaggc tcgaaattga 120

acaacggaag ctcttgagaa attcaactgg tataactttt cacacggatg ttcgatttag 180

gcaaatcaca tatcgagacg ctcaaaattg aacaacggaa gctcctaaga aattcaaatg 240

gtcataactt ttcactcgaa tgtccaatac aggcgtatca cctatagtga cactcgaaat 300

tgaacaacgg a 311

<210> 5632
<211> 354
<212> DNA
<213> Glycine max

<400> 5632

agcttcaatc ggacattcgt gtgtttaagt tatgaccatt tgaatttctg aagagcttcc 60

gttgttcaat tttgagcctc tcgacatatt atgcgcccga atcggacatc cgtgtgaaaa 120

gttatgacca tttgaatttc tcaagagttt tcgatgttta atttcgagcg tatcgatata 180

ttataagccc ggatcggaac tcagtgtgaa aagttatgac catttgaatt tcacgagagc 240

ttccgttgtg catttacgag cgtctctata tgtgatacgc ctgaatcgga catccgagtg 300

aaaagttatg accatttgaa tgtctcgaga gctttcgttg tcaattttga gcgt 354

<210> 5633
<211> 281
<212> DNA
<213> Glycine max

<400> 5633

tggcttagaa ctttctgctt ttattaggag gttttttgc atttgtattt tggggtaatg 60

cagacatgga gtaacttcta aaatggctgc caaaggaaaa taattgagag ccaagtgatg 120

ctgaataatt ggacctctga gaagtgttac cgatacctga attcaaagaa aattgaggag 180

gagataaccg gcgggttaca tgggggagag cgttatctaa tggaagtatc catttaataa 240

tgctccacat ggatcctgat ttgtgtgaaa ctgaatgttc t 281

<210> 5634
<211> 363
<212> DNA
<213> Glycine max

<400> 5634

agcttctaaa ctttgtacaa gaattaagct ctgataccac ttgttagaca agtggcctca 60

gatatcttaa gaaggggggg gttgaattaa gatattcgaa acttttcccc ctaattaaaa 120

atctatctta ctttttactt aagttatgaa ttcccttaat gacaatcttc ttaaatatta 180

attcaaatga agcaacttga atataaatat aaagcaataa taaataaagg agattaaggg 240

aagagaaaat gcaaactcag ttttatactg gttcggccac atccttgtgc ctacgtccag 300

tccccaagca acccgcttga gagttccact aacttgtaaa ttccttttac aagttctaaa 360

cac 363

<210> 5635
<211> 316
<212> DNA
<213> Glycine max

<400> 5635

ttggaaaatg atttctatac aaaagttagt cgtataaagt gactaacact tatctatgaa 60

agtttttag agagtttttt agaatcttat tgtcttattc tctcaaaagc aaatcattgg 120

ccaaacactt gcaagtcaat taacgattct tctaagaact tcaacttgta tcattcttct 180

ctaaaagaga gaaaaacttt tgtacttcta aaacaaaatt gttgtgatca agaggctgtg 240

tgtctcttga attgtgagtt tcctgaacac aagggaatgg atccctcagt tgttcaaaag 300

tttgaaatgg atttta 316

<210> 5636
<211> 324
<212> DNA
<213> Glycine max

<400> 5636

tgtagggtta aagtctcacg attgtcacgt gctcatgcaa caattgttag ccgtggctat 60

acgagacatc ttgccaaaca aagtcaggtt aacgataact cgtctatgct ttttcttcca 120

ttctatatgt agcaaagtca ttgatccagt catgtttgat gagttggaaa atgaggccgc 180

aattatactg ggccagttgg agatggattt tccccctggc ttcgttgacc tcatgaatca 240

cttgaatggg cctctggtcc gagaaaataa atgatggggt cctgtttatt aacggtggat 300

gtacccagtt gagcgataca tgaa 324

<210> 5637
<211> 369
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5637

cttgaagcca aaaggaaaaa ttatcttgtt tttgttcaat gtactctgca taatagagtg 60

tgttcaatgc aaagttacca ctccattcca tcgaaccttg aggattgata aagccatcaa 120

gataagtctt cattaaaatt gatcttgaat attgcttcca tggtcttcga agataaatcc 180

taaccgggtt ttgaaacaac aatattccaa aaagttcctc gcatatcgcg atggatgctt 240

catagaatca aaanccnctn nannnaanct cnccggaaaa tcacttgaag agggcctaan 300

gacncngcat ccatcgcttt atattacagt tgaatttcca atcaaaagta tgacccattg 360

tgtcaaaca 369

<210> 5638
<211> 316
<212> DNA
<213> Glycine max

<400> 5638

tgtaatcgat tacacacata ctgtaatcga ttaccatagg agattttcag aaaatattct 60

caacagtcac atctttttgt gtggttcttg aatggctatc aaaggcctat atatatgtga 120

cttgagacac gaatttgaca agagtttttc agaacaaaaa ggtcttatgc tcttagaaag 180

aaaaataatt ttatcctctt acaaattcct tggccaaaac tcttgtgatt caataaggaa 240

ttatttgagt gctcaaattg ttcaatctat ctttttatag agagatttct tcttctcttc 300

ttcttcattc tgaaaa 316

<210> 5639
<211> 314
<212> DNA
<213> Glycine max

<400> 5639

tatagttatt ggagggagaa taaaacaatt caaaatcaat tgtacctttc aagtaacgaa 60

gaattctttt tgcggctttt agatgaggag aggtaggagc ctccgtaaag cgacacacaa 120

ctcccaccga atatagaata ttgggccttg tattggttag ataccttaaa ctccccacaa 180

gactcttgaa gaccgtggag tctaccttct ctccttcatc aaactttgat aacttcaagc 240

caccttccat aggtgtgttc acgggattgc aatcaagcat attaaatttc ttcaacactt 300

cttttgtgta gctt 314

<210> 5640
<211> 305
<212> DNA
<213> Glycine max

<400> 5640

tggacaatgg cagtgcaatc ttactaaaat cctggatgaa tctcctataa aaacctacat 60

gtccaagaaa agaacgcatt tcctgcatag aagcgaggta aggtagagaa gtaataacat 120

caatcttggc cttatcgacc tcaatacctc taatagatac caaatgccct aagattatat 180

gtaaccacat ggtacaaaaa ctattgttaa gagtaaagac ccttcccgtg gcctttggac 240

gtctagtttg gtcattcaga cccccaccat tctgcttctt cttgggatat aggcaatctc 300

tttga 305

<210> 5641
<211> 312
<212> DNA
<213> Glycine max

<400> 5641

tcaacattca atttcgagcg tctcgatata ttatcaggac tcaatcagac atccgagtaa 60

aaagttattg ccgtttgaat tggctcagag cttcaacatt caatttcgag cgtctcgata 120

tatgacagga ctcaatcaga catccgagta aaaagttatt gtcgtttgaa tttgctcaga 180

gcttcaacat tcaatttcga gcgtgtcgat atattacggg cctcaatcag acatccgagt 240

aaaaagatat tgtcgtttga attggctcag agcttccaca ttcaatttcg agcgtctcga 300

tatattacgg gc 312

<210> 5642
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5642

agctntaagg aaattcaaac gactataact ttttactcgg atgtctgatg gagtctcgta 60

atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120

tttttactcg gatgtctgat tgactctcgt cacacatcga gacgctcgaa attgaatgtt 180

gaagctctga gccaattcaa acgacaataa ctttttactc ggacgtctga ttgagtcctg 240

tcatatatcg agacactcga aattgaatgt tgatgctgtg agcaaattca aacgacaata 300

actttttact cggatgtctg attgagtcct gtcatatatc gagacgctcg aaattgaatg 360

ttg 363

<210> 5643
<211> 324
<212> DNA
<213> Glycine max

<400> 5643

tctctgcatg atgaattgcc aaaatggatg gatccatgct tattgatttc ttttctgtgt 60

atgtgacagg gggggaaaag gagtgatggg cgaacacctg acggaatacg tccaattaac 120

tcgagatgtg gcctattacc tagagcacat ggaagtactc tttttacaag aggcgagaca 180

caggtctgag ccaactttat ttgttttcca gtttatgctt ttgatgatat ctgttggtgt 240

ctatatatgc ttatgcaagt cacattatct cttttctgtg tttgttagtt ttattagaag 300

ggagatagaa tgatcaaaca caaa 324

<210> 5644
<211> 314
<212> DNA
<213> Glycine max

<400> 5644

tagcacctgg aattcggatg ctccatcaac ctacctatcg atgatgggta gagggtatgt 60

gtctttgggg cacgccctgt ttagatcagt gtagttggtg cacattcgcc atttttcgtt 120

ggctagctag gtggaaaacc tgacctctct tatgaaattt gcatggagga gcttgtcgac 180

ttcttctttg atgactttat gccgctcttc acccatcttc attttctttt gtgatatagg 240

tttgtcttta gaaggttttc ctatacaaga tgtaaacaaa actgccttgg ttgatgagga 300

ccctagacac catg 314

<210> 5645
<211> 314
<212> DNA
<213> Glycine max

<400> 5645

tagcacctgg aattcggatg cttcatcaac cttcctatcg atgatgggta gagggtatgt 60

gtctttgggg cacgccctgt ttagatcagt gtagttggtg cacattcgcc atttttcgtt 120

ggctagctag gtggaaaacc tgacctctct tatgaaattt gcatggagga gcttgtcgac 180

ttcttctttg atgactttat gccgctcttc acccatcttc attttctttt gtgatatagg 240

tttgtcttta gaaggttttc ctatacaaga tgtaaacaaa actgccttgg ttgatgagga 300

ccctagacac catg 314

<210> 5646
<211> 311
<212> DNA
<213> Glycine max

<400> 5646

tgtcagccgc gattgacgaa ggatgcagaa gacgacgtta gtctctgcgt gctatcaggc 60

ttttcatctt acagacagca aaagaaagtt tatacggata accactcggg tatttccacc 120

cgtcaacgtg actcaaatgt cagtatgaca gatcttgtga aggtggccga caaaagcgag 180

gctcttgctc ctacgtatcc tccaatgagg aactcagacc tacgtagttc ttgataactt 240

gtgagacttg aaaaagtctc caccggaaga tgctgacatc tccggaaagg gcgcagatga 300

ccacattggc c 311

<210> 5647
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5647

agcttgtaag agtgcatttg ttttttcttg caggccattg ataggattgg gtggttgctt 60

tctaaaagga gaatttggtg ggcaattgtt gactgctgta ggtaaagatg gaaacaatca 120

aatgtttcct attgcctatg gtatagtgga atctgaaaat tattcatctt ggaagtggtt 180

tattgatcta ttgatagctg acctagatgg tattcaggag ggatcttagg ctttcatttc 240

taaccancan aagggaaana cttattggaa ctaacatgaa ctatggcttt cattcaattg 300

gtccactatt ttttgcaggg tttggttgaa gtaatcaaag agcatggtga aa 352

<210> 5648
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5648

catatgaata atactccaat ggttgggttt agcaaaaatg attaattttt catagataaa 60

ataaggtttg aatatttgtt tcgaaagatg ttaatattaa tttagtgtga gaataagatt 120

atgtttgata aaactagtta aaaagataat tagaaatagt aaaaactaat tgatagttga 180

aaaatgaatn ttttttttatt cgtgaaaagt tatcttattg aatcatatac aaatgtttgg 240

taaaattata tgttgaaata gctaacaaat ataaaaatat ataaatgaac atgtttatat 300

aatgttttta tacatatttn taattcgatt tgttgataaa aaaatat 347

<210> 5649
<211> 368
<212> DNA
<213> Glycine max

<400> 5649

acatagacac ctagttagac ttttgggtta ctgtgtggtt ttagacgaaa tgatgctacc 60

atatgaatat atgcctaata gaagcttgga tgctttcata tttggtaaga ctatttcttg 120

catttgaaat attctgttgg ctaagcactt ttttgtacac tcaaaatcct attttgaagt 180

agactaatgt aatgtgtcat gcccctaatg aactacaaga ccggaagctg tgtgttctat 240

tagactgcga tgtgcgcttc aagaatatta tggggattgc tcgatggctt ctttatctac 300

atgaagaatc tacgttgagg attattcatt gggacttgaa tacaagcaac attctacctt 360

atgtatag 368

<210> 5650
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5650

ctaagctgaa tcgacctcag tgtgnaagna tgacttctga tattcgttag ctcncgngat 60

caatntctag cgtctgtata tgtgatacgc ctgaatcgaa catccgtggg aaaagttatg 120

accatttgaa tntctcgaaa gctttcttgg tacaatttcg agcatctcga catattgtgt 180

gcccgaatct gaccatcggt gaaaagttat gaccatttga atatctccag agcattcatt 240

gtgaagtttc gagcgactcg atatattata agcatgaatc ggaccttagc tgaaaacgtt 300

ctgaccatta gaatttctca gagctctcgt tgtaaaattt gagcgcctct atatatta 358

<210> 5651
<211> 437
<212> DNA
<213> Glycine max

<400> 5651

aatcctgact caccataaac gttgacccaa ggttttattg cctattctta tcctcggaag 60

caagaaaaga tgtgaagaaa attttcaatc aaaggaaaaa ggagaagaaa atttccaatc 120

aaagaacaag agaatgataa ttctcaatca aaggaaaaaa aggaagcaaa gaaattccca 180

atcaaagagt gggagaaaga ataaatgaaa agaaaggaaa ttcccaacca aataatggga 240

gaaatgtaaa aagaagaatg ctcctgatcg aaagataaca gaagacatgt gcagagaggt 300

ctttggaccg gacaatatct gaacaataca gaattgtcac caaatgaacg aaaaatgaag 360

gaaatgaaac cactacctaa tatggtcttc tccacttaat taccaaccaa aatcccgtgc 420

gctagctacc ctttttt 437

<210> 5652
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5652

tcgcacttga taacggagaa cacatgaaca tgttgctggc attttcattc atggcgctcc 60

ggacaaacgt ggagtatgga tgattgccta gagggaccgc acttatgcta tcatgaagct 120

catctccaaa cttgaaagtg gacgacacat gaacaaccct aagcaataaa ctttcatgtg 180

gctccgaaag aagatgagaa tggacgatng ccttgagggt ccactcttag gcaatcatga 240

aactcatctc caaactcgaa agtggaggac acatgaacag tcctaagcat atacattcat 300

gttgctcctg aaaaggataa aatggacgat tgtcttgagg gtcctcttat aggcaatcat 360

gaaactcatc tcccaacttc aaagtggagg acacatgaac a 401

<210> 5653
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5653

tcaagctggt atctccttct tcactacatc tagtaatacc gggttgtgtc ttctctgtgg 60

ctgtcttact ggtttagctc tgttagtgct tagctntact gagttttaaa agattggcta 120

aaattttgtt aaaacataag cacttagaca atgaaggaaa gctggagttg ctgcacatga 180

tgtctaacat tatgtcaagg aatcagatcg ggctgcacaa tgcacaaggc aagataaaat 240

gtcaaatgaa gaattgaagc tgcaggatcc acgatgtcgg atacaatgtc caggacattc 300

tgcccgaaaa tactggacac ataaatctgt tataccttta acagcttaat gtgcagtcag 360

caacagatta tgcgatctat ctntaggaac gaattaaaag ataattaaag ttcgaattac 420

aaacttgaat agttcgttca cggatt 446

<210> 5654
<211> 476
<212> DNA
<213> Glycine max

<400> 5654

tgcagtagat gccactctac tctaaattct tgaaagatat gttaacaagg aagcataaat 60

atattcatca ggaaaacatc atagtggaag gaaactacag tgctatgatc gaaaagatcc 120

ttccacccaa gcataaagat cctgggagtg taactattcc ttattcaatt ggagaagtca 180

atgtgggaaa agctcttatt gacctgtgag ccagtgtcaa tttgatgcca ctctccatgt 240

gcagaagatt gtgggagttg gaaataatgc ccactcgaat gactttacaa ttagctgact 300

gttccattac caggccatat ggagtaattg aagatgtgtt ggtcatagaa aaacatttta 360

tcttcctgac agactttgtg gtaatggata tctttgaaga tactgacatc cctgtaatat 420

tgtgaaggcc attcatgttg actgcaagct gcatagatga tatggggaag aggaag 476

<210> 5655
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5655

atcggacatc cgtgtgaaaa gttatggcca tttgaatntt acgatagtta ttgatgtata 60

atttcgagcg tatcgatata ttataagcct gaatcggaca tccgtgtgaa aagttatgac 120

catttaaatt tcacgagagc ttccgttgtt caatttcgag cgtcactata tgtgatgcgc 180

ctaaattgga cattcgagtt aaatgttatg accatatgaa tttctcaaga gctttcgttg 240

ttcaattctg agcgtctaga tatgtgatgt gctcgaattg gacactcgtg tgaaaagcta 300

tgaccattat aatctctcaa gagctttccg tgttcaattt cgagcctctc gacatattat 360

gcgcccgaat ctgacatacg tgttgaaagt ttgaccattt gaatttcatg agagctt 417

<210> 5656
<211> 458
<212> DNA
<213> Glycine max

<400> 5656

cacgtttcaa actcaaagta tattacattt acaaacttaa ataagaaaga tcttcacatc 60

tataaaaaga cttaatgaac attaacagaa ataaaaccta ccagaacctg taagtgaaag 120

aaaatataca gacccatgta aactatagaa catagatcta acctttttaag tggaaaataa 180

cataaacgta gaagtatgca aatgaagatt taccaaatga attcagtaat agcaacttta 240

cctgaaagtg taaactgtta atgcagcacc caatccgcca aaacaatggg accatgatcc 300

tctggaactc taccatgtta ataacttcca aaatatcttc cagttcaccc agaaacatca 360

cctctttctg actatttgtt gctggccaat atttcaacaa gccgcttatc acaatgctcg 420

ctaactttgg ctccttctct ataaactgca taacacag 458

<210> 5657
<211> 468

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5657

tactcaagct cgagcacctn cttccttacc tcttncttca ttgttgggtn ctttcttctc 60

tggggttgtc ggactggtct gtagtcttct tccatcatta tcttgtgcat gcagtaggca 120

gggctaatac ctttaagatc cgatatatgc cacccaattg cttccttgtg tttcttcaaa 180

atttctacta cactcgtttc ttcatcggat gtgagtgtat tgctgatcac catatgctta 240

ctctcattct tctttaagaa cacatgcttc agatggttgg gacatatctt caattctacc 300

ttcttcttct tagatggagt cttgctcttt agtttctcaa aactggcctt ctcctcatgg 360

atgttatctt gtcgatccaa gtcttctaag caagccttga gatcttcttc tttctcattg 420

ggtaggcaat ctatccgatc accatggctc tttcagctaa gtctgtgc 468

<210> 5658
<211> 256
<212> DNA
<213> Glycine max

<400> 5658

tgaacaacga taactctcga gagattaaat ggtcatcata actagtcaca ctgaagtacg 60

attcacgcgc atactatatc gagacgctcg aaatctaacc acggacgctc tcgagaaatc 120

caatggtcat aacttttagc acgaaagtcc gactcagttg catgttatat cgagacactc 180

taaatcaaac accgagagct ctcgagaaat tcaaatgatc ataacctata acacgtaggt 240

catattccga cctata 256

<210> 5659
<211> 464
<212> DNA
<213> Glycine max

<400> 5659

acttcctgtg tttgggaacc tctcctgcct caggtgtttc taaacccaat cacctggttc 60

aagcacgact ttctttctgc ttttgttggc ttgccgtgca tagctcgcat ttttcttttc 120

aatttgaacc ttcacttgct catgcaactt cttcacatat tcagctttag cctgtgcatc 180

cttatgctta aacatagcaa tgttaggcat aggcaacaaa tcaagaggag tcaaaggatt 240

aaatccatac actatctcaa atggtgaaca attagttgtg ctatggacag cccgattata 300

agcaaactca acatgaggca aacaggcttc ccaagattta agatttttct ttaaaacagt 360

cctaagcagt gtgcctaaag tcctattgac tacctcagtt tgaccatcag tttgtgggtg 420

acaagtagta gataacatac aattagtacc aatcttaccc caca 464

<210> 5660
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5660

gaatgaagct ctgataccac ttgttagaca agtggcctca gatatcttaa gaaggggggt 60

tgaaaaatgc aagttacaag ttcccttaaa aaatgaattc ttaaataatg attcaaataa 120

aacaatctga atataaatcc aaagcaataa taaataaaag agtttaaggg aagagaaagt 180

gcaaactcaa atttatactg gttcagccac acccttgtgc ctacgtccag tccccaagca 240

acccgcttga gagtttcact atcttgtaaa atccctttac aagttctgaa cacacaagga 300

caatccttcc tttgtgttca gatatcttta caacaagaga ctctcggtct ctcaatccct 360

tttgagaatt tagaaagaag agaagaataa atctttcttg aaatagatag attgtacaat 420

ctgagcactc acataatncc ttattgaatt gcaagtgtat tg 462

<210> 5661
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5661

acatgcctca tgacacctaa gtatacttag tggagaatct tggacatgat attggattag 60

tgggttgaac catagctaaa attcactaat cataattagt gaaaatttgg ctccacaaat 120

tcaatttcaa attcaagtga aatttggata aaaattcaaa tttccctcta attatgtgtg 180

acacttataa atagaggtca tgcgtgttgt atttttcaac tctgatcatt tgagaattac 240

gctncaaagt ttagacctca tttgaggcat aaaattatgt gctccttctc cctccactca 300

tcttctccta ccttcaaact cttatccatg gcttcctatg gaggtgagat tgttcttgac 360

tcatcttctc cttgaagtga cgtctcca 388

<210> 5662
<211> 429
<212> DNA
<213> Glycine max

<400> 5662

tggcctcagc aaatacctga tttccagaat gtaattctat ctatatacct ccaatcttga 60

atggagaggg ttaccactac tggaaaaccc gaatgcatat tttcatcgag gcaatagatc 120

taaatatctg ggaagccata gaaatagggc cttatatacc caccacagta gaaagagtat 180

caatagatgg tagttcatcg agtgaaagca taaccataga aaaacctaca gatagatggt 240

ctgtagagga tagaaaacga gtacaataca acctattagc caaaaacata ataacatctg 300

tcctatgaat ggatgaatat ttcagagttt caaattgtta gagtgctaaa gaaatgtggg 360

acactcttcg attaacacat gaaggaacta cagatgtcta aatatcttcg ataaatgcac 420

ttactcatg 429

<210> 5663
<211> 468
<212> DNA
<213> Glycine max

<400> 5663

taagctcctt caactgcaca aggctcttat atattgatga gtatccttgt agaaccttca 60

cccgacgaag acactgacaa aaacttatct tctccttctt ggacaaagta tggcaggctg 120

ggggcaagta aattatcttc ccatcagacc ttggatgcaa ctatgatctg atacccatat 180

cagttagatc ttgacgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagcg 240

tcccaatcac actgtcacaa acatttttct ccacatgcat aacatcaata caatgtctaa 300

cgtcaagatc acaccagtac gaaagatcaa agaatatgga cctcttcttc catatgcaac 360

tctgactttt atccttcttt tgggtcttcc caaatacagt gttcatgtgt tgaacccgct 420

gatataccag ctcaccagtc aacggtatcg gcgcaatatc atgctctt 468

<210> 5664

<211> 465
<212> DNA
<213> Glycine max

<400> 5664

gctatcccta ttgaactgcc atcatcaagc atgcttttat tcgagtttct tcatcactca 60

cagtataaaa cacctccaac agtgaaggga gtttttcctt attcaatatt tgaacccgaa 120

cccgaatatg atcgtactca tgattcaagc ccgagagaaa cttaaagatt ctctcttgct 180

caataaactg agccaatgca acggagtcag cattgcattt gcatgtcatc ttcaaattct 240

gatattggtc gaactccatc cacaagccac tcaaggtttc ataatattct gtcaccgaga 300

ggcttccttg cttagtcata aagatctggc tttggatctc atgacagaca atgatatcat 360

tctttacata gtatatgctg gcaaggttgt cacaaatttc tcgagcaccg gataaatatt 420

gaatgacaat ataccatgta tatagtaaat acttcaaaaa tgatg 465

<210> 5665
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5665

tcaatctaag cttatccctt ttcactcatg tgtccaagtc tttgatgcca catggttgac 60

ttattgacaa cctcagtaac tgctaccata tcctcatctg caatcatgta aagagatcct 120

cgcttctttc cacgagccac aatgagattg gcctttgtta ccttccaagc ttcatctcca 180

aaagtggtgt gatgtccctc atcatccaac tgccctttag atattaaata tctctttaag 240

gcatgaatat gtctgacatt gcgcaatgtc catagggatc cactggaggt cttgatgttg 300

atatcacctc ttccgacaat gtcaagagaa tttccatctg caaggtaaac tntcccaaac 360

cttccagaaa tatagttaga caataaatct ttagagggag tagtgtggaa cgacacacct 420

gagtccatga tccatgaatc aacaggacta tccannactg caaataatgc atcatcaag 479

<210> 5666
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5666

cataagtaag aagaaatatt actaccaatt aatagggttc tattaacctc caaaaggtgt 60

ctattgtttc tctcggctac tccattttgc taaaggaaat taggacatga tgtttgatga 120

agaataccaa caaatttcat aaanaatttc aactcatttt tgtattatcc ccttcattat 180

tagacctgac tatctttatt ggagtattaa attgtgtggt tatcattttg tgaaaaactt 240

gaaaaacatt acacacatca tttttgcgtt taagaaggta taaccaagtc attcttgtac 300

aatcacccac aaatgtcaca aatcatcgca tttcattatg tgtggaaaga gggacaagtc 360

ctcanacatc atagtgaata atatagaagg gagcataaac tttattgtta tttatagaaa 420

aagtaacgcg atgacgtttt gtcattacac aagantcaca ttt 463

<210> 5667
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5667

agcttagact gagttcagcc taccatcctc ttactgatga ccaaactgaa cggaccattc 60

agtcattggg ggacctttta agagcatgtg tcttagaaca aaaaggaagc tgggagagtt 120

ntcttcaatt gatagagttc acttataaca atagttttca ttctaccatt ggtatggctc 180

cctatgaagc tttgtgtggt tgaaggtata gaacacccct atgttggtta gatctcggag 240

aaggcctcac ctcaggacca gaagtggtac aacaaaccac tgagaaagtt aagttaattc 300

aggaaaggat gagaactgct cagagtaggc aaaaatgtta tcatgataag aggaggaaag 360

atctggaatt cgaagttggt gatcatgtat tc 392

<210> 5668
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5668

ntgatgcaac agttggagag gttaatggaa gaaggagatg atgcgctcca tgagaggttg 60

gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatgat 120

gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttcctctctt taaaggaaag 180

aatgatccag aggcctactt ggaatgggag atgaaaatag agcatgtttt ctcatgcaaa 240

aactatgagg aggaccaaaa ggtcacgctt gccgccacgg agttttccga ctatgctctt 300

gtgtggtgga acaagctaca aaaggagaga acaagaaatg aagagtcaat ggttgataca 360

tgggcggaga tgaaaaggat catg 384

<210> 5669
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5669

agctatgacc aggaattatt ggatgggttg gtatgtgaat tcaagttgtt cctggtgcgg 60

agatgatggt acagcgggtg aaccagaagc tgcagtttct tttggtgagg tagccatgga 120

aaagcagagc gtttggaatg atttcgtaaa tctcagaaaa ctattgngaa atgctggaga 180

taacacgaat gccaagcaga tattaaattg aatgaagaat gtagaggggt gtgtgaagca 240

acggtcgaat ttgctttgta gtgaacgtgc tattaatgtt aagtgattcg tttgggcacg 300

ttcagatagc agtagctgct ataattcctc tagcagacaa atgcccagct tgccctcagt 360

tttcaactga tttgcatcaa gcctttggaa atatc 395

<210> 5670
<211> 326
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5670

tgtcaaaaag ggaagcaagt taaaaactct tttgaaagta aattaaatgt ttctacttca 60

aaacccccttg aactacttca cattgatcta tttggtccct ctagaacaat gagtttgggt 120

ggtaattact atggcttagt tatagtagat gattactcaa ggctcatatg gactttgttt 180

taaccaaaaa tgaagctttt ggtgcttttt aaaaacttgc caaggtgatt caaaatgaaa 240

aaggtctcaa cattgtttca cttaaaagtg atcatagagg tgaatttcan aatgagtctt 300

tttgaaactt ttgtggagaa aatgga 326

<210> 5671
<211> 387
<212> DNA
<213> Glycine max

<400> 5671

agcttatgtt gcaaacattt tacaatatat ccctctcaac ctcagtagca aaatcagcca 60

caacatagta attatgacct ttccagcatc aggtacaatc ccgagtggag gaatcatccc 120

aaccttaaat aggtgaatcc ttaacaacag caacaacaac aaccttattg taaaaatgtt 180

gttggcctaa gcagaccata cgtgcctcca ccaatctatc agcaacaaca acaacagccc 240

cagaaacaac aaacagttga ggcttcttcg caaccttccc ttgaagaact tgtgaggcaa 300

atgactatgc aaaacatgca gtttcaacaa gagaccaaag cctacattca gagcttaact 360

aatcagatgg gacaattggc tacacag 387

<210> 5672
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5672

ctaagctnga aaggattatg nacttgacct tgagtccaag acatttacta aaatttagct 60

ataaatcaac taatgaaagt gctcaaaagg gtatatacaa ccctccaaac ttgagcctaa 120

ggataaatga agtttaaagc taaataactc agaaagatat acatgtctcc aaccttgaga 180

cttaaagtaa ataaagctta aaattgagct acaagtaagc taaagtactt aaaaagatat 240

atagtaaaaa aaaatgtaag aaaattaaat gagctataat acaattaaaa tgaataatca 300

aaccataatt taagtctagt tatgcttttg ttattaaaaa gtantaattn tagcantttt 360

atatttatta aataaattat acgagtctca ttaaaataat taaagcatat ttcctagtct 420

ctattaacaa gatcaaataa acttttacaa tatt 454

<210> 5673
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5673

agcttggaga caaaatcatg aaatttgggt gtcgccaatt cnttggtgag aaaatctgcc 60

acttgatcac ttgttgaaac tggtagtagc tttagagtgc ccttcaaaag cttctctcgc 120

acaagatggc aatcaatttc caagtgtttt gtgcgttcgt gaaaaaccgg atttgaggca 180

atgtggactg cgctttggtt gtcacagtaa agagttggag ttctggtaag ctgaactctc 240

aaatctgcaa aaagatacaa cagccattgc aactcacaag cagctgaaga cagagccctg 300

tactctgctt ctgaagatga tctggacaca gttgcttgct ttttagcacg ccatgacact 360

aaagatttgc ctatgaagaa acaatatcca gatat 395

<210> 5674
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5674

agcttccatc aagtgcggac cctcaaggat atccaccatt ctccccattt ttcggagccc 60

cataaatgtt attgcctagc gctattcatg tgtcctccac cttcgagttt ggagctatgt 120

ntcatgattg cctaagtgcg gaccctcaag gaaatcctcc attctccccc tttttcggag 180

ccccatgaat gttattgcct aacgctgttc atgtgtcctc caccttcgag tttggagcta 240

tgtttcatga ttgcctaagt gcggaccctc aaggcaatcc tccatcctcc ccctttttcg 300

gagccccatg aatgttattg cctagcgctg ttcatgtgtc ctccaccttc gagtttggag 360

ctatgtttca tga 373

<210> 5675
<211> 329
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5675

ttgaatagga gtggtgcgcg gngtatatgt tccatataca catctttatt gagatttcca 60

tgaaggaata cattataaat gtcaagttgt tgcaaggacc attgatttgc tgcagcaatg 120

gtcaaaagta acttaattgt gtttaccttt ccaattggtg aaatagtggc aaaagtagtt 180

gataccttgg gtttgagtga atccacgaag catagctttg agccaatacc tttattntat 240

gttagactat ttattttaac tattatgata attaacataa taaaattata atgtctactt 300

aaatatatgt ttcttacttt attttaaac 329

<210> 5676
<211> 267
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5676

agcttgaaat tgaacaactt atgctctcta ctatntcgaa agggcatagc tttttactct 60

gatgtcctat tcggagacat gactcattta tacacttgaa attgacaacg gaaactctct 120

gaaaattctg atgtgcataa cactttcctc tcatgttctg atcgaggaca taactttatt 180

aaacgctcga atttgaacaa ctgaatctct cgagacatct gaatggcata acatttcact 240

cagatgttcg attcggggat attattt 267

<210> 5677
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5677

gcttgttagc atactctnta attgtttcga actccttcat tttctgcatc tcaaattctc 60

taactaaatt cagggcttgc attcccttaa tcctttcatc tccttcgtat tcattcttaa 120

ggaaactcca gatttcatat gcctgattga tggtcattat tctagtgaaa atttcttttg 180

agatagcagc aaataaagaa gctcttgcct ttgactntct tgttttcctc tccttttaat 240

tntttatctg agtcattgtt ggattggttg gtaaaggaag aacttcgtag tcttcctcaa 300

ccgcttccca gagatcattt gcctccaaat gtgcctccat ttttgctgcc cagatttcat 360

gattatcacc atcaaacat 379

<210> 5678
<211> 372
<212> DNA
<213> Glycine max

<400> 5678

tactcaagct tctggtggga catcttgact tgcttttat ctgacattct ttatagattc 60

tgccctcttc tattttcaga ttgggaatgc ctctaacagc acctttgtca atgattatct 120

tcatgcctct taagtgcaga tgtccaaatc tttgatgcca tattttgact tcatcttctt 180

tggagaatag acatgtggag gagtaactgg tttcttgagg tgtccatagg taacagttgt 240

cctttgatct gctgcccttc attaagactt cactcttctc atttgtcacc aagcattctg 300

actttgtgaa gtttacattg aatccttcat cacacaactg actgatgctg atcaagttcg 360

cagtcagtcc ct 372

<210> 5679
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5679

agcttcttcc ccctttccct aatgtctaat tttttcacat agnttatgag cttatgcaaa 60

tataataatt gcatccttta actataaaca ggacaaaagt atccttttac atttgacaag 120

gtattaaatc atgaggcatc tcagcaagat gtttcactga gatatcacaa ttggtacaaa 180

gtgcgcttga tgggtacaag gcgattatta atttgtgtct tctttgttca agttaccttt 240

tgcaggtcaa aaatctctta cattggatac aactattggt atgtgacaat tattattttc 300

tgagaagcag tggctactgg ttgatcattg gcgccaattc ttgtatgtaa tatactagag 360

tattaatatt aatatacaca tctttaactt tctcgattat 400

<210> 5680
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5680

tcgaaagaga cattccaagt ggttggaatt catttagatg ttttcttata tgatcaagta 60

caagaatggt aaggaaaaca tagtggttga tgctttatct agaaggtatg tttttcttac 120

ttctttgcaa actaaattgc ttggttttga gtttatgaag gacttgtatg ctaatgattc 180

tgaatttggc aaagtatggg attcttgctc taaacatgtt tttaggaact attatagatg 240

ttcatgtttc aaaaaaaaaa gttgtgtgtg tctgtgttcc ttgcatgaaa tgttagtttg 300

agaaatcatg gtggtggaat gatgggacat tntggtgtga aaaagacttt ataaattctg 360

gataagccat tttattagcc tagcatgaag catgatgtg 399

<210> 5681
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5681

agcttagact gagttcagcc tactatcctc taactgatgg ccaaactgaa cggaccattc 60

agtcgttgga ggacctttta agagcatgtg tcttagagca gaaggaagt tgggagagtt 120

ctcttccatt gatagagttc acttataaca acaattttca ttccaccatt ggcatggctc 180

cctatgaagc tttgtatggt agaagatgta naacacccct atgttggtta gagctcggag 240

aaggcctcac cttatgacca gaagtggtac aacaaaccac tgagaaagtt aagttaattc 300

aggaaaggat gagaactgct taaagttggc aggaaagtta tcatgataag aggaggaaag 360

atctggaatt cgaagttggt gatcatgtat tcttgagagt cacttcatgg ac 412

<210> 5682
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5682

cactctgaaa ctcagctatt cagatgctac tgacaaaggc agtggttttg gttttttcag 60

cggnccattc tgctgcccca ggataacaag ggctaatagc tacaacagta ggactaacat 120

gcttaacagt aaacagaaca cagccaggtg atgttggagc acaagagaag gccacaatct 180

ggtatgtcat ctcacatctt ggcagtttga tcagctcccg agtaaaggga taaagaagaa 240

tactcggtga gttctgggcc ggtatagcaa taaccaacca tcttttgtat aacaaactct 300

agatccattc aactctggcg actcgaaggt gagtgtctta tgctgcacag ggtcatagaa 360

ttcataacag gcaccgaatt ttgga 385

<210> 5683
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5683

agcttaagct ccttcaactg tacaaggctc ttattatttg aagagtatcc ttgnggaacc 60

ttcacccgac aaagacactg acaaaaactt atcttctcct ttttggacaa agtatgacaa 120

gctgggggcg aataaatttt cttcccatct gaccttggat gcaactgtga tcatatgccc 180

atctcagcta gatcatgacg ggtattcgag ccatccttcg tcttgccttg aatgttaacg 240

agcgtaccaa tgacactgtc acatacattt ttctccacat gcataacatc aatacaatgt 300

ctaacgtcta gatgatacca gtgcggaaga tcaaagacaa tggacttctt cttccatatg 360

caagtcgtac tttta 375

<210> 5684
<211> 285
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5684

attgttcaat ttcgagcgtc tcttatatna cgcgcctgaa tcggacgtcc gagngaaaag 60

ttatgaccat ttgaattcct caagagcttc cattgttcaa tttcgcgcgt ctcgatatat 120

tatgcgcctg aatcggacct ccgagtgaaa agttatgacc atttaaattg ctcaagaggt 180

tccattgttc aatttcgagc gtctcgatat attatgcacc tgaatcggac ctccgagtgg 240

aaggttatga ccatttgaat tgcttaagag cttacattgt tcaat 285

<210> 5685
<211> 387
<212> DNA
<213> Glycine max

<400> 5685

tctcctcatt gtagcattat ttactttcgg ctctttagca ttctcaataa attggctccg 60

atagcccata gaaactatac aacccaatgc aattgctctg gcctctagca attcgctatt 120

tgcactcctc ctaattatat atatcccgta atttctatca ctattcatta ttttatttta 180

tatttaatta catgttttaa tatatcaaga gagagaatga taatttatta aattaaaaat 240

atttttagtg atgttatgtt aaatagacta cataatatta cattttttca tcataagaga 300

tgaaggataa tataatattt gtatctttca cagataaaac aagtgtaatt tattttgttt 360

actataaaag aatatagtat gactact 387

<210> 5686
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5686

agcttatcat tgataaaagt ttatgattta ctatttgata ctattagggg gttgntcgaa 60

gaacctgccc ataatntaag attccagcag aagggttaat ctctaagttt ccatagggaa 120

agatggatcc ttgtgaaaac ttatctccct ctgcacattt catgacatac atgtaatctg 180

ttggaactag actaaatcca agctcatccc aattaatgtc agcatagntt tccccagcag 240

tactgatttt cagacaaaag agggtaatca aagttcagat tcanaatcac caataaaacc 300

aagttcatac attattatct actagtacaa taacattgtc gtactcatca aaaattaaat 360

accataacat tttcgtattc a 381

<210> 5687
<211> 437
<212> DNA
<213> Glycine max

<400> 5687

agcttgctga tacaattatt aggggattgt ttaagtactg gcttataaca aatagtccaa 60

aggaggttat gttcctgggt gagttggaag aagtcttgga agcaactcaa cccccagaat 120

ttcagcgttg tatggagcca ttgtttcgtc gcattgcacg ttgtttgaat agccctcatt 180

ttcaggtttg aatttttcaa tactttcctc tggctccttt tctgtttctc ctcttatttc 240

atgatgaaaa tacacctgaa tttcaaatta attctctctg gcaacttcct tcatactgat 300

tacctgaatc ctatatctca attcacttcc tctagttgat aagttggttt aattagcaag 360

aaaaggacta acctttttgc atcatcctat agctaaatgc atattggctt atggctttga 420

agtgacataa tatcaat 437

<210> 5688
<211> 411
<212> DNA
<213> Glycine max

<400> 5688

agcttgaagg taaactagat gccttggtta ttctggttat cccaactggc catgaatcaa 60

aaatctgcac ctatcaccag actctgaggt ttatgctcct ttgccgacca ccacacagac 120

ctttgccctt ttgggcaaca atctgaagca attgaacagc ctgaagctta tgttgcaaac 180

atctacaaca gacctcctca acctcaacag caaaatcagc cacaacagaa taactatgac 240

ctttccagca acaggtacaa tcccggatgg aggaatcatc ccaaccttat atggtcgaat 300

ccttcacaac agcagcagca acaacaatag acttattctc aaaatgctgc tggcccaagc 360

agaccataca ttccttcacc aatccagcat caacaacaac aacaacaacc c 411

<210> 5689
<211> 447
<212> DNA
<213> Glycine max

<400> 5689

agcttccatc aactgcagct gcccaaactt ttctagtatt caattacaac atattataat 60

cgattacaga ggcttgttct atggtaatcg attacaggga gtagtaatcg attaccagac 120

cctaaaacat ggatttttca ttaaaactaa ctatttttca cccacaaaaa catacacatt 180

tagtataaat aatgaaaata tacaataata aaaaaacaag tatcaaaagc aatcaataat 240

catcataact ctcaaacaca ttcatcaaag acaatccaaa tttcaagatc aaacaacaat 300

taacaatcat cataactctc aaacacattc atcaaagcaa tcaaaatttc aagaacaaac 360

aacaatcaac aatcatcata actatcaaac ataattatca aagacaatcg aaactcaagc 420

gaaaacaatc attaaacctc aatcaac 447

<210> 5690
<211> 399
<212> DNA
<213> Glycine max

<400> 5690

agcttggtta tctccttctt cactacatca ttattcaccg ggttgagtct tctttgtggc 60

tgtcttactg gtttagctcc atcctctaaa tttattcgat gcatacatgt ggatgggcta 120

ataccaggaa tgtccgccag ggtccagcct atagccttct tatgcttctt gagaactgac 180

aacaacttct cctcttgctc atcagcaagg gaggcagata taatcactgg aaaactcttg 240

ctatcatcca agtaagcata ttttaaattt gatggcagag gcttcaattc tggtgtggtc 300

ggctggacag tggttgaagg agatggtttc tcagccttta cctcataaag aaagtcagag 360

gtatgtgtac ttcctgaaac attggtagtc ctatctgac 399

<210> 5691
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5691

ngccgccacg gagttttcct actatgctct tgtgtggtgg ttcaagctac aatttgagag 60

agcaagaaat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120

gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180

aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240

tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300

ccgtgatatt gttgagctgc aggagtttgt tgaaatggat gaattgcttc acaaagcaat 360

ccaagtggag caacaattaa aaaggaaggg agt 393

<210> 5692
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5692

atagaagact ccaagaagaa tgggtcagag atgcaagaga aggccctatg gttctcatga 60

gccttagggt agatttcggg cccatgggct aagtatgagc ctgcttatct ttgtacatat 120

tatattaagg tttcattatt ttttggccat gtatttaggg ctccataata tagataagat 180

accctagaaa tgtaggattt ttcagccctt gtattntang gcacctcaac tagattttgt 240

attaagggta gttntttaat ttcacatgca ttaagtgatt atttgatgtg ntgtggtgga 300

aaataaatta aatgaattgg gagaagtcca atccaattaa atttt 345

<210> 5693
<211> 391
<212> DNA
<213> Glycine max

<400> 5693

agcttgaagg taaactagat gccttggtta ttctggtaac ccagctggcc ttgaatcaga 60

aatttgtacc tgtcgcaaga gtctgtggtt tatgctcccc taccgaccac catacagacc 120

tttgcccttc tatgtagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaaca 180

tttacaatag acctcctcaa cctcagcagc agaatcaggc acaacacaac aattatgaca 240

actccagcaa caggtacaat cccaggtgga ggaatcatcc caaccttatg tggtcgagtc 300

cttcacaaca gcagcagtag caacaacgac aaccttatgt tcagagatgt gctggcccaa 360

gcagaccatg cgttcctcca ccaatccagc a 391

<210> 5694
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5694

ntgatgcaac attnggagag gttaatgttt caacaagatg ttgcgctcca tgagaggttg 60

gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120

gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttcctccatt taaaggaaag 180

aatgatccgg aggcctactt ggagtgggag atganaatag agcatgttnt ctcatgcaac 240

aactatgagg aggaccagaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300

gtgtggtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgataca 360

tggacagaga tgaaaaagat catg 384

<210> 5695

<211> 343
<212> DNA
<213> Glycine max

<400> 5695

agcttgacaa ggagccatac caatacaggc ctggtagctt ttgtccgaag caaactcaag 60

caatggcgaa caatccatcc agctaccttg ttgctctata atacacgccc gaagtagatc 120

ctctagagtc tgaatagttc gctcagtctg accatctgtt tgaggatgat aagctgaact 180

aagcttcagc tttgtcccca aggcttcatg tagacttgtc caaaatcgcg aagtgaacct 240

tggatccctg tcagatacaa tactagaagg aattccatgc aaccttacta cttccttgat 300

atacaactcc actaactgtt ccattctata cctcatattc act 343

<210> 5696
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5696

tctacattca atttcgagct tttcgattat tacgggactt aatcggacat ccgagtaaaa 60

agttattgta gtttgaattt gctcanggct tcggtattcc atttcgagcg tctcgatata 120

ttacgggact caatcggaca tccgagtaaa aagctattgt cgtgtgaata ttctcagagc 180

ttctgaattc catttcgagc atctcgatat attacgggac tcaatcagac atccgagtag 240

aaagttattg tcgtttgaat ttgctcacag cttcagtatt ccatttcgag cgtctcgatg 300

tattacggga ctcaatcaga catccgagta aaaagttatt g 341

<210> 5697
<211> 350
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5697

tagctatatg caagtcaatt tcatgatgct tctcggagag gatcttcttc ggacatattt 60

gcgcaaaatc tctagaacta cgaagaagtt gtccatcatc tttttgctct taatgaaagc 120

agcttgactg tccctaatta tcgtctcaag cactgtggct atgtggttag ccagaatntt 180

aaatacaatc ctgtataaca aattaccgcc tgatattggt ctaaaatggt taacctgtga 240

ggcctgatca tgcttaagaa taagcccact aatagcatgg ttgaactgct ttataattta 300

tccagttgta aacatttcat taaccgctgc atagatatta ccaccaatga 350

<210> 5698
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5698

tgttgctcga tatctntagc tctttgagtc cnctngagaa ttgngttnct cttcttcttc 60

ttcttcttat atgggatccc tctagccttt tgctgacact tcttgacctc acgcaggtac 120

acccgaatgg ctcctcctcc aaagggatta gtctctggcg atccgccatg ctcctcatan 180

gcagcgcgaa accggcctat gagggcatcg aggctacccc atgcttgcct gagagggcan 240

gcacanggtg cangaggggt gggctggcca aagaagatgc aaccgtgcaa gtggaccttg 300

gttttccaaa ttgatcgagg taccgaagga aatccaacac atggttgaag ttgcactgag 360

agagtggaac tgggggactc 380

<210> 5699
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5699

ntaagcaaat tcaaatgaca ataactnttg actcggatgt tctattgagt catttaataa 60

ttcttgacgc taganattga atacagaagc tctcaccaaa tttaaatgac aataactttt 120

tactcagaag tctgattgtg tcccgtaata tatctagatg ctcaaaattg aaaacagaag 180

ctctgagcaa attcaaacga caatagctnt tgactcggat atccgattga gtcatttaat 240

aattcgagac gctcaaaatt gaatacagaa gctctaagca aattcaaatg acaataactt 300

ttgactcgaa tgtccgattg agtcanttta taanttgaga cgctcanaat tgaatgcagg 360

agctctcacc aaatttaaat gacaataaac ttttactcag aagtctaatt gtgtcctgta 420

atttatcta 429

<210> 5700
<211> 318
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5700

tacaatcaag tggacataaa gtcgattcct cctgaggagg tttggtattg tctcaacacg 60

gatggagctt tcaaagggca aggaggtatt actggttgtg gtgggctttt taggaatata 120

aatgggaagt ggatttgggg tttttccaga aacttangga aagaaagtgt ctttgttgcg 180

agctgtgggg ttntttttt caaaggcctc aagttgttct tcataaaggg attgataagg 240

ttactattca agtagattct aaagttgttg ttaaagctat aaatggcgac aaagtgggga 300

attttngttg gtggatat 318

<210> 5701
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5701

tgannatgaa caacggattc tctcgagana atctagtggt tataaattnt cacacagatg 60

tccgattcgg ggaaataata tatcgagacg cacgaaattg aacaacggaa gctctcgaga 120

aatttgaatg gtcataacat ttcactcgga tgttcgatcc ggggacataa tttatcgaga 180

cgctcgaaat tgaacaaccg aagctctcga caaattagaa tggtcgtaac ttttcacgcg 240

aatgttcgat tcggggacat aactcatcta gacgctcgaa attgaacaac ggaagctctc 300

gagaaatttg aatggtcata agttttcaca cggatgtccg attcgggaac ataatatatc 360

aagacgatcg anatngaaca acggaagctc tcgagaaaat cgaatggtca taacgtttca 420

cacagatgnt ccgatcgggg acat 444

<210> 5702
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5702

ttccttttca ggtccattga ctaataaacc agtattagta aacttgtttc tggagggttt 60

ccacgtttac cagtggccca cacttcatct ccaatagcat ctactaatgc ttcacctccc 120

ctggttgctt cacccaggat aagtgagctt catgaacttc ctagacctcc tggtaatcaa 180

tctagcaagc cacgagcggg tcactctgct ccattagtat taaaaaatcc aaaagctgcc 240

atgactaata aatttccttc agttgtattt agtgcagcat ctccactctc aactccacct 300

gtctctcgga gtttctctat accttctagt ggtcagagag ttgtggcatt aaatgtctct 360

tatactaacg tattggatac tcnccaagat tcaaaggttg aataagacgt gtcaacctca 420

ctaacaccca tgtcgcagag agcatctaat atatc 455

<210> 5703
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5703

gttcttcctc aaaactgtcc taagcaaagt tcccaaagtc ctattaacaa cttccgtttg 60

cccatcggtt tgtgggtgac aagtggttga aaataacaat ttattgccca acttgctcca 120

caaagtcctc caaaaatggc ttaggaactt agagtcccta tcactaacaa tgctccttgg 180

caaaccatgg agtctcacaa tctccttgaa aaacaaatca accacatggg aagcatcatc 240

aactntctta catggaataa aatgagccat tttagaaaac ctatcaacaa ccacaaaaat 300

ggaatctcta ccattgcttg tttttggcag ccncacaaca aaatccatgg ataaatcaat 360

ccaaggatac tccggaattg gcaatggagt atacaatcca tgaggctcta ccttagactt 420

ttgcctttta catacaatgc aatgttcac 449

<210> 5704
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5704

agcttcacaa agagaatcat ctagatataa catacttgga agatctctta cgaggctatg 60

cttttcaagc tttaagatta acctcaagct agcatgacca agcttctcat gccatgccca 120

atgatgctct ntgactgaga gtaagcatga cacttttta ctggatagat caccaagttt 180

aatcttatag agatttcctt gtctcttagc agagaagagt gaagacctat ccttgtgttg 240

gactatacac atatccttaa taaaggtgac attatatcca ctatcacata attaacttat 300

gcttagtaga ttatgcttca atcctttaac aagcaacaca ttttcaatat gaggatagag 360

agggatacaa atcttactga cactagttat tcaaatcttt tgattccctc caaaagtgat 420

cgccccatca gacat 435

<210> 5705
<211> 445
<212> DNA
<213> Glycine max

<400> 5705

agcttcctat gctcattgga gagtctgaga ttcttggacc ttatctcaag tgggttcatg 60

ggattaattc ctcatcaact aggaaacctc tcagacctgc agcaccttag tgctggatac 120

aattatgctc ttcagataga caaccttaat tggatgtcaa ggctatcttc cttagagtac 180

cttgatttga gtggttcaga ccttcataaa caatggaact ggcttcaagt acagagtgca 240

cttccatctc tttcataact acacttggag agctgtctaa tcgataactt aggaccacca 300

aaatgaaaag ccaactctac acatctccaa gtgcttgatc tttcaattaa cagtctcaat 360

caccaaaacc attcatggct atttaatctc agcacaactc tctgtcaact tgatttacac 420

agtatccttt ctcagggaca gtgat 445

<210> 5706
<211> 488
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5706

agcttgtgca tncaataccc tgatgaggat gttccatatg ctcttaaaac tggactgatc 60

tcattgcttt caaagtttca tggccttgca ggtgaagacc cacacaagca tctgaaagaa 120

ttccatattg tctgctccac catgaaacca ccacatgtcc aggaggatca catatttctg 180

aaggtctttc ctcattcttt agagggagtg gcaaatgact ggctatatta ccttgctcca 240

aggtccatca cgagctgnga tgacctcaag agagtattct tagaaaaaca atctccctgc 300

ttccaagacc acagccatca gaanagatat ttcaggcatt agacaactca tgtgagagag 360

cctatatgaa tactgtgaga gatataaaaa attatgtgtt agttgccctc accaccagat 420

ttcatagcaa cttctcctcc aatatttgta tgaatgactc accaacatgg agagaagtat 480

gatagatg 488

<210> 5707
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5707

taaaggaagt ggaagaatta gtatgggcag aaatgtctct tcactgattg gtaaatctgt 60

tccccaaatc cctgaaaaat gtaaagatct aggtacattc agcatacctt gtattatagg 120

gaacaataag tttgacaatg ccatgctaga tttaggagct tctgttagtg ttatgcctct 180

gtctattttt aattctctat ctcttggtcc cttgcagtca actgatgtgg taattcattt 240

agctaataga agtgttgtat atcctgctgg tttcatagag gatgtcttag ttagagttcg 300

tgaactgatt ttccctgttg atttttatat tttgaatatg gaggagggat tctctaaagg 360

ctcagttccc atcattctat gcagaccttt tatgaaaatn gctagaacta agatagatgt 420

atatgcacgc acactatcta tg 442

<210> 5708
<211> 485
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5708

agcttattgc atgagctata tcaggttgag tacatgccat agcatacatt attgaaccta 60

taatgttagc atatgtgata ctctccatat aagtatactc ttcagctctc tttggggatt 120

gacttacact tagtttgaat tgatcatata taggtgtcac aataggccaa cttcgaattt 180

gacattccaa acctttcaat aaatttattg aggtatgtct cttgagatag atacaaaatc 240

ttcttctttc tatcccтttt gatttccatt cccaatattc tccttgttgt cccaagtcct 300

tcatttcaaa ttccctttnt aactcanctt tgaccttggt aatttcggcc ttaccgntac 360

ttggtattaa catgtcatca acatatagca gtaggattac aaaggtacct ttattccttt 420

tgaatagcca ttttcaattg actacccttg aaccaatggg ctttttgata aactcccatg 480

tattt 485

<210> 5709
<211> 444
<212> DNA
<213> Glycine max

<400> 5709

taatgtgagt tgagagatca acacggcgtg ttctacacct tacaaacgtg attcaacaat 60

cccattgtat gagagtcttt ctcgatcttt ctatagctaa ctgggtgtag gtaggattat 120

attattaaaa tataattcta tttttgtatt atgtatagaa acttacactt taaaaacaag 180

aacgagaata tcatatttat ttgaccaatg attaaatatt cattcaactt atttattatt 240

tttaaattaa gtatacgatt gcattaaata attagttagt ttgttacttc gcgaaaataa 300

aatacaaaaa ttcacaatta actataagtt tcccctacta tgtatcattg acacaatttc 360

aaagttccaa tttcaaatgg atgaatcatt aatcattatc aatgatgtat tatatgggaa 420

gtagactact tcaagtcgtt ttaa 444

<210> 5710
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5710

agcttctgtn ttcaattatg agcgtctaga tatattacgg gtatcaatcg gacatccgag 60

caaaaagtta ttgtcatttg aattctgtgt attcattttt tagcatcaag aattattaaa 120

tgactcaatc ggacatccga gtaaaaagtt attgtcgttt gaatttgctg acagcttttg 180

tattcaattt cgagagtctc gaattattaa atgactcaat cggacatccg agtaaaaagt 240

tattgtcatt tgaatttttct tagagctttt gatttcaatt tcgagcatct agaattatta 300

aaggactcaa tcggacatcc gagtaaatag ttatggtcat tttgaattgc ttagagttac 360

tgttctcaat ttcgtgcgtc tcgatatact ataggactca atcggacttt acagtaaaaa 420

gtta 424

<210> 5711
<211> 488
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5711

catgcaagct ngaaggcatg taacccacca tcttgtcata gtagaacact agtaatgtgt 60

ccactatcat tgttatcatt tccctctcca tcngtggggg tgctacttaa gctgccagat 120

ccctccacct ttggacgtat tctttgaaag attcatgctc ccttttgcac atgttctact 180

actccattct atccggagcc atatcagaat tgtactaata ctgcctaatg aaggcaacca 240

ttaggtcttt ccaagaacgg acctgagaag gttccatatt attataccag gggatggcta 300

ccccagtaag actttcctgg aagaaatgca tcaacaattt ttcgtctttc gcgtatgccc 360

ccattttcct acagtacatg ttcaggtgat tcttgnggta agtagttccc ttgtacttat 420

cgaaatccag caccttaaac tntggagaaa tgaccacgtc aggcactatg cacaactctg 480

ccatgtca 488

<210> 5712
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5712

cttctcattt atgcataaca tacaagttcg tattttaatt ntatgtttag taacaagact 60

aaacttcata ataatatgaa agataaattt tttatttaat acttgttagt atatattgaa 120

aagaaaactg ttgaaattag taatttttga ttatttttgc aacatataag aaaggtgtta 180

tgtgtgcttt ctttagtgat acgatgttac gtgttttaat agactaataa tgtaatgtaa 240

cattgaaaca tcaaattata aatattttgt ataaaaatta atggtatatt tttgttggat 300

gtatttattc agcacaaaaa tttattggat gtgttttaat ttttgtgaat ggccctccct 360

gtcttctcag tctagggtgc ccttgcaaga catcattatc caatggccgt tttaacatgt 420

cttaatttaa ttatttctta taa 443

<210> 5713
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5713

agcttgtgca ttcaatatcc tgttgagggt gttccatatg ttcttaagac tggactaata 60

catttgctgc ccaagtttca tggtcttgca ggtgaagatc ctcttaagca tcttaaggat 120

ttccatattg tttgttccac catgaagccc ccagatgtcc aggaagatca tatctttcta 180

aaggcttttc ctcattctct ggagggagtg tcaaaagatt ggctatacta ccttgctccc 240

aggtccattt ttagctggga taaccttaag agggtgttct tggagaaatt cttccctaca 300

tctaagacca ctgccatcag aaaagacatt tcaggcatct ggcaacttan tggagaaagc 360

ttgtatgagt aatg 374

<210> 5714
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5714

agcttatggt gtgttgatgg tgcaatatta ttgtgttcaa cgaatcttag cttcatttaa 60

tataattaga caatgtttca tttaaataaa attttatttt tattctattc tactattgtg 120

aatttatttt tcattaatgt tctcactcac ggaaaatata ttatgacaat ttgatgtgaa 180

agtgaaacta gtttgtcaag tttagtcaca gttaatattg tggagctttg tagaattata 240

ttaggtaaac cactagcata tatgatacat gatattgtgg catgtatatt ttatatattn 300

tgacaagtaa aaagtacaca attgcttccc ctaatttcta ttcctcanat tataccctcc 360

attttcatga aattcaaaca aggtgtatta tagtatagtt ntaccgtact atcttctgtt 420

attnttatac tntgtacaac aatagttagt acgtta 456

<210> 5715
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5715

tatctcttcc cattagtaat aagattattt cttttccttt ttctcttgtt catactgatg 60

tatggcgtcc tgctaatgtc cttaatatct catgtgctaa atggttttta accttcatag 120

atgattgtac tcgagcaact tatgttttct tattaaaata aaaatctgaa gtcagctttg 180

tttttattca gtttgtgtca atgattanaa accaatttgg agtcaatatt aaaagaatta 240

ngtctgacaa tgccagggac tactttaatc ttgtgctaaa atcttnttgt caaaaggaag 300

gaataatcca tgagtcttta agtgttaaca caccccaaca aaatgggatt gcagcaagga 360

aaaatgggca cttattaaac caaactagag ccttgctttc taaaantata tccctaanaa 420

antatggngg gaagccctcc tttactgcac ctacctaatc aatatatta 469

<210> 5716
<211> 484
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5716

aagccttatt cgttccctca tgaatatcca tcactactaa aataaaaaag aatttttaa 60

aatggtccaa aacaatattt aacgacggtt gttgaccgtc gtagtacata tattgtaaaa 120

agtgttaatt ttcaacgacg gataagaaaa taccctctta aaaaattgac aactttcaac 180

gacggataag aagatattga cttagaaaac tgacaacttt ctaagacgat gtttacttag 240

aaagacaact tatttttaat tattgatatt ttttttaaca atatcccatc ataaaaaata 300

tgaataatta aaaataatct ttattaccat aactttaatt aatattatca taatattaat 360

taaaatcatg acaataaatt aattaataat taaaaatgta tgatcataag tcttttggaa 420

ggtagtcaag agtaatatgt atccaacata cattaattaa aanatgaacc tccatctaat 480

acag 484

<210> 5717
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5717

agaatcaatt catgtttcct ttgatgagtc taatgttatt tatccaagat aggatatttt 60

agatgatatt atagaatctt tagaacaaat gcacattcat ggacaagatt ctaaaggaaa 120

agaagaagga agcaataaag atcctccagt agaagtcaaa gcaaataatg atcttccaag 180

agagtggaaa gcttaagaga tcatcccctt gacaacatnt ttggtgacat ctcaaaaggg 240

gtaacaacta gacattctct taaagattta tgcaataata tggcttttgt gtctatgggt 300

gaacctaaaa gtataaataa agccataata tattatcatt ggatagttgc tatgcaagaa 360

aaactaaatc agtttgagag aaacaatgtg tgggaactat tataacaacc tgaatactac 420

cccatcat 428

<210> 5718
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5718

catgcaagct tgacatgcta ttgaacaagc agntatatac tctgcttcac aagtagagag 60

tgcaacaaca tcctgtttct tagagcacca ggagatggga gcacctccaa acaataaaac 120

atgccccatt atgctttttc tgtcaagaac atctccacca cagtctgagt ctgaataagc 180

cacaagttgt ggctcaacct tctctttcta atgtggaaat agaacaccaa agtctagtgt 240

gctctcaagt atctcagtat ccttttagct accatcatat gtgaatgtct tggatcactc 300

ataaacctac tgataactcc cacattgaaa gtgatttctg gtctggaatg acaaatgaat 360

ctgagactcc caacaatttg cctatacaag gtacaatcca ctacagggtc agcttcacat 420

ttacccaatt ngcaactca 439

<210> 5719
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5719

agcttctggt tagtattgat tctcggcgta ttcctttaac accttcaagt accgcttaac 60

tggatacatc caccgtaaaa agaagaacag gaccacatat ccggatctcc ctgactagat 120

gaacaattaa gtgatccatt atgtcccaca atgatggtgg acaatacatc tccaattgac 180

aaaggacagt gacaacctca ttctccaaat catctaatag tcaaggggca atgactgtgn 240

tacagatagc attaaaaaga aagcacatac cagttatggc aagcctaact ttgtcaggca 300

ggataccccg catcgctacc actcaatatt attgcattaa cacgtggcta tcatgatatt 360

tcaagccaac caacttcata tcattgaggg ctacaacgat cttgatatta gaatagtatc 420

cttgtgggac tctacactcc atagacattg acaaaaactc atcttc 466

<210> 5720
<211> 353
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5720

tgcacacaag atactcctta cctaaatgca gttttaacat ctaactgccc caagtgaaga 60

ttctctgcag ctaccatact cagaataact ctgatggtag taatctttac cactggagag 120

aagatctctg tgaaatcaat tccttgattc tgttgaaacc ctttcactac aagtctcacc 180

ttgtatgact ttctacgcgt cagatgctta ctttagccta tagacacccc ctattttgta 240

tcgctatctt ttcttatacc aatataatta aacaccacgt cttattcttc gtaagggatg 300

tcatcacatc tatcattgct tgctcccact caatatacan gttcccctgc atc 353

<210> 5721
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5721

gtcacctgcg gcatgcaagc ttcatgatga tgaatcaaga tggattcatg ttgttttgat 60

gggttcaaag atgatgacaa anatcccaag agaatgattt caagattgag tcaagaataa 120

ttcccaagag aatgatttca agattgagtc aagaacaatt caagaatcaa gagaaatttg 180

atttcaataa tcaagaatca aggataatca agatcaagat tcaagaatca agagaagact 240

caatcaatat aagtactaaa aagtttttca aaacattgag tagcacatga agttttcaca 300

aaatctttta ccaaagagtt tttactctct ggtaatcgat tacagtaaac tggtaatcga 360

ttaccaatgg caaagtttgt tttcaaaagc tntcaactga atttacaatg ttccaattaa 420

tttcaaaatg gtgtaataaa ttacaagata ttggtaatcg attaccagt 469

<210> 5722
<211> 484
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5722

agctngctaa cccatggaag ctcctaatat ctcccacact ntntggggtg ggccattctt 60

ggatggcctt gattttctca gggtccactt ggaccccatt tctaccaact acaaaaccta 120

agaaaactat attatctaca caaaaggtac acttctctat ttttgcatag agggtgtttt 180

tcctaaggac tgaaagaact tgtctgagat gtcctaagtg atcatctagg ctcctactat 240

acactaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc cttaagacat 300

gatgcataag cctcataaag gtgcttggtg cattaatgag cccaaaaggc atcactagcc 360

attcatacaa accaaacttg gtcttgaaag cagtattcca ctcatcaccc tttttcatcc 420

tgatttggtg ataaccactt ctaagatcat attttgaaaa gatattggca ccatgcaact 480

catc 484

<210> 5723
<211> 487
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5723

tgcaagctgt ttggaacttt ggctcagaac ttagctatgc aacaaattcg gttcttccac 60

agttgaaaaa atttacccga gatatagtat ctagtgaagg agttccaagc agatctgtca 120

tcagatccaa ttgatgaact acatttttcc caggaaaaag tggctttcct gttagtactt 180

cagcaaagat gcaacctata ctccatatat caattgctgg tgtatactgc atcaagattt 240

aaaaaaagtt agacctacag aaagtgaata tgaaaactgg aaccatttta aagtgtcact 300

ttacaaccaa ataaaattaa aaagttcagt atgaaactat gaactaattt tagcagaagc 360

caatacacac gcatgaatcg acatttatca caacactaca acattntccc ttgatgctcc 420

acaagaaata cagccccaca tttacaacac ttaatgagtg aattcaatct taactaccct 480

atagact 487

<210> 5724
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5724

agcttcaaga ttctttgacc ctaccagtca tcttttatat taataaaatt atttgctaat 60

agttatatat ttatctaaca ctatacaata ttgattatat cattgaaata ccatacgtaa 120

aatcataata tctatgttaa tggatcaatt tttattgcat agaaattata ttaatgaaac 180

acgtttaact atcaatagtt ttttaacatg tgactgttaa gttnaaatag atanaattct 240

atngcaaggg tgtccatgtt gaaagaaggt ctcatcatat aaggtaaact aggtttaaaa 300

attatattag atactaatac acgatgatat atatatatat aatagaatta tggcngatga 360

cttacttata tttttcnntg attacccaat acaccaataa acactaatta ataaacaata 420

tgaaatatat a 431

<210> 5725
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5725

agcttgagct tagctacaca tacctctcta atagctaagc tcacctcctt gagatgagaa 60

gctagagctt agctacacac cccctataat agctaagctc acccncatga caaanaaaca 120

tgaaaataca aaaaaaaagt ccttactaca aagactactc aaaatgccct gaaatacaag 180

gctaaaaccc tatactacta gaatggccaa aatacaaggc ccggatgaag gaaatactta 240

ttctaatatt tacaaagata agcgggctca tacttagccc atgggctcga aatctaccct 300

aaggctcatg agaaccctag ggccttccct tggatctcta gccctagcgc tgttcgccta 360

tcctccaccc tcaactctta ttcagagacc catgaatnga ttgcctagcg ctgtttatgt 420

gtcctccacc atcgagtctg gaaccc 446

<210> 5726
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5726

agcttgttca gaatggttng gaagtgtcca aacatggttn ggatatcttc tccctctttc 60

atactaaaga gttcatacta acttgttaga aggctcaact tgttacattt tacctaagag 120

gacccttcat aggtaatggc taaggtgtac cacatctgtt tagcactttt gaagttgtga 180

actttggaat attcttcttg agatagagca cacaacagag catttcttgc acgagagttg 240

aaaagaaata tggacatatg ttgattcgtc cactgtccct aggtatctcg ntcttatgag 300

cgtctaaagg aatttgatta cctttctcta caacgtccca catattgatg tgagtggatt 360

caaagaaggc aatcattctt tccttccagt tgtcgtagtt ggctcccttg aacataagag 420

acttgttcac a 431

<210> 5727
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5727

ggcttctaca taaagagctt tgaaatctga agtttagttt tcaaatgatc aaagttgaaa 60

aaaatgcaca cacatgacct ctatttatag cctaagtgtc acacaaaatt ggagggaaac 120

ttgaatttct attcaaattt cacttgaatt tgaaattgaa tttgtggagc cagccaaaat 180

tcactaatta tgattagtga attttagcta tggttcagcc cactaatcca agatcaagtc 240

caagattctc cactaagtgt gcttaggtat catgaagcat gcaaagcatg aaggacatgc 300

acaaagtgcg actatatgat gtggcatgga ggtgtagcaa gtaaatgttc acctccctct 360

ctaaaattta antggattgg gcttctcaat tcaaattaaa ttatttctca acacacacat 420

caaatatttc acttatacat gtg 443

<210> 5728

<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5728

tcgagaagaa tggcctcagc aaattcctta tttccagaag gaaattctat caatagacca 60

ccaatctcta atggagaggg ttaccactac tggaaaaccc gaatgcaaat ctttattgag 120

gcaatagact taagtatttg ggaagccata gaaatagggc catatatacc caccacagta 180

gaaagaatta caaaagatgg tagcacatca agtgaaagca taacaataga aaaacctaga 240

gatagatggt ctgaagagga tagaaaacga gttcaataca atctaaaagc caataacata 300

ataacatctg ccctgggaat ggatgaatat atcanggttt caaattgtaa gagtgctaaa 360

gaaatgtggg acactctaca gtttacacat gaaggaacta cagatgttca tagatctagg 420

ataaacacac 430

<210> 5729
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5729

catgcaagct tccatcaata atgtttcact cagaagtccg attcagtcgc ataatatatc 60

gagacgctca aaattcaaca acggaagctc tcgagaattc aagtggtcat aacttttcac 120

atagatgtcc gattcaagga cataatatat caatacactc gaaattgaat aatggaagct 180

ctcgagaatt caagtggtca tcactnttat ctcagaagtc cgattaaggc gcataacata 240

tcgagattct cgaaattgaa caatggaagt tctcaagata ttcaaatggt cataactttt 300

cagttcgatg tccgattaag gcgcataata tatctagacg ctctatattg aacaacggaa 360

gctctctaga tattcaaatg gtcataactt ttcactcaga agttcgatta aggcgcataa 420

tatatcgaga cactaaaaat tg 442

<210> 5730
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5730

agcttcttgg atgtttaatg gatcctcctc tattgtatag gccatataat cgggcccata 60

atctgtagca attcttgctc tcttacctct tcgaggctct atatctgatt ctggttgtgc 120

aagattttca ttactaatag caggaagatg actagatgaa gtacccgcac tattccttaa 180

tttaaaagat aatcagaaac cagattcttt ctcatctctg gagtatgcat cacatctttg 240

agaatcaaag tctttccaga ggtaaacttc agttcaacat ctccagttcc ancacccgtn 300

ntggtgtgag aatctccaag caacactttc ttattttcaa catttgtgta tgttgtaatc 360

atagcacgat catagtagac atggcgagag gcgccagtgt ctacccacca tacatctgat 420

cctgcaatga tattaatctt agttatcaca acaatgggtg actc 464

<210> 5731
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5731

atactaggct ngagctcggc ttgagttgaa tacgtaaggc ttaagcttga ctcattacct 60

gtcataagct ttttttatag gcttggctcg acttacataa aagtctgatt tggcccatga 120

gcttatttaa aagcttgctt aaagacgtcc ttgattaatt aatcatttta aaatctagtg 180

aaatactaac taaaaaaaac ttataaaatt tcgtataagt aatgtacaaa tccaataata 240

attgataaac aaaatcatat tgaattcaag tctgtcaagc acacagtcta tcaaaagaca 300

atttaaagag catgatctta aaaaatgtat ggattatgtg ctcagcccca aagcttacaa 360

atcta 365

<210> 5732
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5732

agcttcaaga atcaagatca agattcaaga atcaagacaa gacttaatca agatgagtat 60

gaaaaggttn tttcaaaaat tgagtagcac atggattttt ctcanaatat gtttaccaaa 120

gagtttttac tctctggtaa tcgattacca gattgttgta atcgattacc agtagcaaaa 180

tgaatttgaa aaagttttca aatgaattta caacgttcca attgatttca aaaaatatgt 240

aatcgattac aatgttttgg taatcgatta ccagtgcctt tgaacgttga aattcaaatt 300

caaatgtgaa gagtcacatc ctttcacata aaagctttgt gtaatcgatt acacntgatt 360

ggtaatcgat taccagtgat tggttatgaa taaaccanaa tatgtaactc ttcaaatngg 420

ttttgactt 429

<210> 5733
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5733

agcttctggt gggacatctt gactngctnt ccaatctgac attcaccaca gattctgcct 60

tcttctattn tcagattgng gatgcctcta acagcacctt tgtcaatgat tntcttcatg 120

cctctcaagt gcagatgtcc aaatctttga tgccatattc tgacttcatc ttctttggag 180

gatagacatg tggaggagta gctggtttct tgaggtgtcc ataggtaaca attggccttt 240

gatctgctgc ccttcattag aacttcactc ttctcatttg tcaccaagca ttctgactnt 300

gtgaagttta cattgaatcc ttcatcacac aactgactga tgctgatcaa gtntgcagtc 360

agtcccttca ctatcagaac tttgtccaga ctatgaagtc catcatggac tagctttcct 420

attccaatga nttttccttt agagccatct ccaaatgtca cat 463

<210> 5734
<211> 281
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5734

tatgggttat gcaacagaac tnagcttatt gttacaagac ttggttcatg tgtcgttgaa 60

gcagagatta ttactgggcc caacataggt catagaacat acataccaag aatgaatctt 120

tctccttctg attcaccatg gccattcaag cttattagaa gacaatttcc attcatggtc 180

ttatttgcca tgacaattaa caaatctcaa ggacagtcga tggcacaagt tggattgttt 240

tgcccacccc agtattgtac tactgcgagt atatgttgcg c 281

<210> 5735
<211> 468
<212> DNA
<213> Glycine max

<400> 5735

agcttaccat tataggaagc catggataag atcttgaagg taggagaaga tgagtggagg 60

gagaatgagc acaaaatttt gtgtctcata tgaagtctga actttgaagt gtaattctca 120

aatgatcaaa gttgaaaaaa tgcacacaca aggtttctat ttatagccta agtgtcacac 180

aaaattggag gaaaatttga atttctattc aaatttcact ttgaattgaa tttgaattgg 240

tggagcagaa tttggagcca aaatttcact aattataatt agtaaatttt agctatggtt 300

cagcccacta atccaagatc aagtccatct ccactaagtg tccttaggtg tcatgagaca 360

cgtaaaacat gaaggacata caagtgtgac tatatgaagt gacaatatgg tgtagcaagc 420

aaatgctcac ctccccctta ggatgatcca aaatttaatt ggattggg 468

<210> 5736
<211> 459
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5736

agctngatga atcatgtatc gtagttagga acaaggctag attgattgct aaaggataca 60

accaagagga aggcattgac tatgatgaga cctatgcctt tggtgcaagg ttggaagcta 120

ttangctatt gcttgctttt ggttgtatta tgaatttcag gttatatcaa atggatgtga 180

aaagtgcttt tctcaatgga tacattgaag aagagatata tatagaccag cctccaagtt 240

ttgtagactt tgaacatcct aatcatgttt acaagttgaa aaagacactg tgtggtttaa 300

aagaagcacc taaattttgg tatgaaagat aaagcaattt cttaattgga cagtcttttg 360

taagaggtca agttgacaaa acattgttta tcaagagatc atacaacgag ttcttgcttt 420

gtgcaaatta tgttaatgac aattnttggt gtctctgat 459

<210> 5737

<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5737

agctngaagg tttgtacatg accaaatctt tatttattcg tctgtaccta aagcagtctt 60

tgtattcgtt taaaatgcat gaagatagat cagtaggaga acaattggat ttgtttaata 120

aaatgattct agatcttgaa aatattgatg tcactattga tgatgaggat caagctctgt 180

tattgttgtg ctctttgcct aagagttact ctcatttcaa agagacttta ttgtttggaa 240

gagatactgt ttctcttgat gaagtgtagg ctgctctgaa ttcaaaggaa ttgaatgaaa 300

gaaaggaaaa gaagtcctct gcaagtggtg aagggctgac agccagaggc aagaccttca 360

agaaagatag taaatttgat aagaagaagc aaaagccaga gcatcagaag aatggtgaag 420

gaaacatctt caaaatcaga tgttatcact ataaaaa 457

<210> 5738
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5738

gcttgagcca attcaaacga caataacttt ttactcggat gtctgattga gtcccgtcat 60

atatcgagac gctcgaaatt gaatgttgaa gctctgagcc aattcaggcg acaatatctt 120

tttactcgga tgtctgattg agtcctgtaa tatatcgaga cgctcgaaat tgaatgttga 180

acctctgagc aaattcaaac gacaataact tttttctcgg atgtctgatt gagtcctgtc 240

atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 300

tttctactcg gatgtctgat tgagtcctgt catatatcga gacgctcnaa attgaatggt 360

gaagctctga gcc 373

<210> 5739
<211> 316
<212> DNA
<213> Glycine max

<400> 5739

cgaaggcaaa ctggatgcat tggttaactt ggtaacccaa ctggccttga acaagacatc 60

tgtacctgtt gcaagggtct gtggtttgtg ctcctctgct gaccaccata cagacctttg 120

cccttccatg cagcaacctg gagcaattga gcagcccaaa gcttatgctg ctaatattta 180

caatagacct cctcaacctc agcagcaaaa tcaaccacag ccaaacaatt atgacctctc 240

cagcaacata tacaaccctg gatggaggaa tcaccctaat ctcagatggt ctagccctca 300

gcaaacacaa cagcag 316

<210> 5740
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5740

nttgcaagag ttatgactac tataggaggc atgtttttct cttttcattn ctttcattag 60

gttgtcttct ttcgtcctct cttattttct ttctttcatc ttgacttatt tcttccactc 120

ttttttttcc cttttctttt ctttcttgtt tttctttcca taacttgagg gaactcaact 180

catctaagat tctagataaa gggtctttat gactagtacc cttgccatta acactagatg 240

aatgatgact cgtgttggtt cctaagttgt ggttctttct tgttggaggt ttgaaaacaa 300

aaggtaaaag aaactatggt tgaaactagc caaataaaca c 341

<210> 5741
<211> 322
<212> DNA
<213> Glycine max

<400> 5741

agcttccatc agctgtctta cttgtttagc ctcaccctct aaatttatcc gatgcataca 60

tgtggatggg ctaataccac caatgtccac cagggtccaa cctatagcct tcttatgctt 120

cttgagaact gataacaact tctcctcttg ctcatcaaca agggaggcag atataattac 180

tggaaaactt ttgttatcat ccaagtaagc atattttaaa tttgatggca aaggcttcaa 240

ttctggtgtg agcggttgga tagtggtaga aagagatggt ttctcagcct gtacctcata 300

aagaaagtaa gaggtatgtg ta 322

<210> 5742
<211> 320
<212> DNA
<213> Glycine max

<400> 5742

agctttaagg tcaagagggc tgtatgatga tacaacttgc ctcgttgtag atattattcc 60

ttcagatcat cccgtgttgc caacaattcc aagaaagaaa cgtaacgtgc taacttccct 120

tctctttgga aagaaatctc aaaactctac aaacaaaggc accaataagc tttcttctgt 180

tggtgttgtg gaggaattat ttgaagaggg ttctgcaatg cttacagaga ggtaactggg 240

accataactg ctaaatttat atttgcatga tgtcatttga agtttaattt gtcaccatca 300

tggtggaaag agagaaaaaa 320

<210> 5743
<211> 328
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5743

agcttcgaag tttaaatggg gctattaggt cctaataatc ngngacgggt agctgttcat 60

aagagttagg ggtgatgaag aaagtctcgt acacaacagc agcaatagcc gagccaatta 120

atgggccggc ccagtagacc cagtggttag cccatgtccc gctaacaaca gcaggtccaa 180

aagaaactgc tgggttcatg gatgcaccac taaaggtacc acctgccaag atgttagcac 240

ccacaatgaa accaattgca attggagcaa ttatcccaag tttacccttc tttgggtcca 300

ctgcagtggc atacactgtg taaaccaa 328

<210> 5744
<211> 325
<212> DNA
<213> Glycine max

<400> 5744

agcttgcccg atggattcct attcattacc cattagaaat agactagtag atagggcagc 60

aagaccctgc ctacttagct tcttagatgc atactcaggg tacaaccaaa tacggatgca 120

tccacaagat gaggagaaaa caaacttcat aacctagtcg tctaactatt gctatcagat 180

tatgccattc ggcctaaaaa aggctagctc cacttaccag cacctaatgg acatgatatt 240

caaagaacaa attggaaaga aaatggaggt atatgttgac aacatggtgg taaagtctaa 300

tgatgcagaa tcacacacct atgat 325

<210> 5745
<211> 325
<212> DNA
<213> Glycine max

<400> 5745

agcttgaaag gatgcttcaa tgttggaata taaagaggga gagaaagaga gaggggggag 60

cacgaaattg aaggaataaa agagggagag aagtggaact ttgatgaatg agagtgatgc 120

aagctccatt ggagcttgta ggcctaggat cttcttcatc aatggattcc tttgcttctt 180

ggaagataaa tggcagcgga atggagaagg aagagagaga ggagacgcca cttcaaggag 240

aagataagtc tagaagaagc tcaccaccat aggaggccat ggataaaaac ttggaggaag 300

aaggagatga atgaagggag gggga 325

<210> 5746
<211> 329
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5746

tgcttaacgt ttatcctttc atagtagnca ttttttgcat tccaatttat gatgagggaa 60

tcacgaacac tctctgccgt tgcaaagaaa gccttattga gctcaaactt ctctggagaa 120

aaagggctgg tgaactcggc atggaatttg atgcttgaag caatagatgc agaatctggt 180

acaaattcat tgaaagtgtc tgcaagtgtt attaaagaaa gaattattaa ttaggtcctt 240

atttactgga aaaataaaaa caatgttgag actgtatggc taataaatct catattatta 300

gttcaataaa aacataaaga tgggacaaa 329

<210> 5747
<211> 318
<212> DNA
<213> Glycine max

<400> 5747

agctttagat acatattaat attatagact actatttgta atcaacagaa aagatcattt 60

gtaaaacgct tttagttaat tgcatttctc ctaaagtttt ctaattgagc cattttattc 120

ttttagattt cagttatatt aattgggttc ttcaaaaaaa aaaaagtcta gatcatcata 180

ttctatattt ttcttaaatg agataattta tggtgtccac ttgaggagtg tcctctatcc 240

atctaatttg atactttctt ccgcttatcg cttactctta actgtgcatt taatttatct 300

gctaaatata atataaat 318

<210> 5748
<211> 304
<212> DNA
<213> Glycine max

<400> 5748

ttcagcaaat tttaacgaca ataaattttt actttgatgt ctgattaagg cccgtaatac 60

atcgagacgc tcgaaattga atgttgaagc tctcagcaaa ttcaaacgac aataactttt 120

tactctgatg tctgattggg tcccgtaata tatcgagacg ctcgaaattg aatgttgaag 180

ctctcagtaa attcaaacga caataacttt ttactcggat gtctgattaa gtcccgtaat 240

acatcgagac gctcgaaatt gaatgttgaa gctctcagca tattcaaacg acaataactt 300

ttta 304

<210> 5749
<211> 316
<212> DNA
<213> Glycine max

<400> 5749

agcttcagaa ttcaatttct agtgtctcaa tagattacgg gactcaatca gacatccgag 60

caaaacgtta ttgtcgtttg gattagttca gagcttcaga attcaatttc gatcgtctcg 120

atatattacg ggtctcaatc agacatctga ggaaaaaagt tattgtcgtt tgaatttgct 180

gagaccttca acattcaatt ttgagcgtct cgatgtatta cgggacttta tcagacatcc 240

gagttaaaag ttattgttat ttgaatttac tgagagcttc aacattcaat ttcgagcgtc 300

tcgatatttt acggga 316

<210> 5750
<211> 324
<212> DNA
<213> Glycine max

<400> 5750

tatgaaatcc ttaattgttc tccatcttag caacttttat ctttctggaa ccattccaaa 60

gaaaattgga tcactgcaaa agcttgaaga tttggatctt ggagataacc agttgagtgg 120

aacaattcca atagaagtcg tggaattacc caagttacgg aatttgaatt tgagcaataa 180

taaaataaat ggaagtgttc cctttgagtt tcgccaacct cttgaatctc ttgatctaag 240

tgggaatttg ttgagtggaa caataccaac acagcttgga gaggtgatgg gactgaaatt 300

gttgaatctg tctcgcaata atct 324

<210> 5751
<211> 292
<212> DNA
<213> Glycine max

<400> 5751

tgagccactg cttcacatta ttgaagctct cttcatctgt cacatcataa acaatctgcc 60

agaggaacca gttagtaaag catgcaagga tccatctaca cgggaaatca atatccaaaa 120

gcccatgcca agaaaatcat cacccacaat gatcccatgg gccccacgat agtagctact 180

ggtgattgtc ctaaatcgtt cttgcccggc tgtgtcccac tacatataaa aacagatcac 240

aaatcaaggt aagaaaacta tatgtcaaca caatcatgac ctttggtgat cc 292

<210> 5752
<211> 334
<212> DNA
<213> Glycine max

<400> 5752

gcatgcaagc ttggaaagca tggaaaatgt ctctggtatt gagccatgca aattgttccc 60

ctcgagagtg atgctgtgaa ggcgtctgag gttggaaaat tcaggtggaa taatgccaaa 120

taagtgactg cgaacaatct caaggtagtg cagtccagtg agattggaaa gaacgggtga 180

aagcagcccc actagacctt tatcgtacag gattagtcgt gtgacacggt tatggaattt 240

gtcacataca acacccgtga agttgcacac atgaacagct tcatcccagt tagcaagtga 300

ggaatgcggg tctgatatga ttgtttttct gaat 334

<210> 5753
<211> 343
<212> DNA
<213> Glycine max

<400> 5753

aatacttaag cttttgcaac tagccttgcc ttgtatcttt caatttctcc cttggttttc 60

ttctttgttt tgtacaccca cttaacacca atagccttgt gccctttttgg aagggagacg 120

aattcccttg tgtcattctt ctcgatggat ctaatttctt catgcatcgc atctcatcat 180

ttttatcttg catagcttct tcaaagttca ctggttcata atctgcaaag agacaaaata 240

gtattatatt atccaatctc tcatttcaat cacaaagatc ttggagggtt cttgtgcgtg 300

acacaaccct ttcactctca atagatggca aagtgtcttc atg 343

<210> 5754
<211> 319
<212> DNA
<213> Glycine max

<400> 5754

ttgaagaaat tcaaatggtc ataacttttc actttgatct ccaattcaga cgcatcacat 60

attgagacgc ttgaaattga acagcggaag ctcttgagaa atgtaaatgg tcataacttt 120

taactcggat gtccgattca ggcgactcac atatagagac gcacgaaatt tcaatggtca 180

taacttttca cactaaggtc cgattcaagc ttataatata tcgagatact cgaaattaaa 240

catcggaagc tctcaagaaa ttcaattggt cataattttt caaacggatg tccgattcga 300

gcgcataata tgtcgagac 319

<210> 5755
<211> 322
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5755

agcttgtagg gttaaagncc cactattatt acgtgttcat gcaacaattg tcagccatgg 60

ctatacgaga catcttgcta aacaaagtca ggttagccat aactcgcctg tgcttttct 120

tccatgctat attgtgccat ttggagatgt attttccccc tgctttcttt gacatcatga 180

ttcacttgat cgtgcatcta gtcagagaaa tcaaatgttg tggtcctgtt tatctacggt 240

ggatgtaccc ggttgagcaa gacatgaaga tcttaatagg gtatacaaag aatatttatc 300

gtccagaagc atctattgtt ga 322

<210> 5756
<211> 329
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5756

agcttgagac atcatggnta atttgtcttc tcctatgtng cacaccaaga agcgacagaa 60

gtaactatgt gtctctgcac ttcctttcca ccactccatt ctgatgatgg gtatgtggac 120

agatcaacct atgttgcaca ccaagttctg caagataatt ggtaaatggc ctatactctc 180

ccccagtcag attgtacagc tttaacaggt aaattgaatt gagttttaac tagagtatga 240

aactgtttaa acagatcaag agtttcagat ttacttttca acaaataaag ccaagtaaat 300

cgagtgtgag catcaacaga ggttacata 329

<210> 5757
<211> 327
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5757

agcttgtcgc atctttaact aatgcggttt tataaaatcg nccttgtggt agtgtcataa 60

aatctcactt ttgcagtagt tccaattgca atctatgttt caattgaaga tccttggccc 120

ttcgaaatat tttcttagct tagaaatagc taaatccagc aaaggtatct cactctccta 180

gagaaaatac actctatctc ttttagaaga tacaagtttc ttggcatgca aaccttccaa 240

tcttccaatg gatcccaact tgaagctcaa tcttcatgat ggagacatac tccttgatcc 300

ctcagtgtat aaaaggttaa ttggtaa 327

<210> 5758

<211> 263
<212> DNA
<213> Glycine max

<400> 5758

taacaccttc ccccgcccaa cagattgtgg gtgacaagtg gttaaaaata acaatttatt 60

gcccaacttg ctccaaaaag tcctccaaaa atggcttagg aacttttagt ccctatcact 120

aacaaagctc cttggcgtac catggaatct cacaatctcc ttgaaaaaca aaccagccac 180

atgggaaaca tcatcaattt ttttacatgg aataaaatga gccattttag aaaacctttc 240

aacaaccaca aaattggaaa ctc 263

<210> 5759
<211> 345
<212> DNA
<213> Glycine max

<400> 5759

ctttggcttt gaggacttgc tccaatggct catcttttct tctattgaac ctttcttcat 60

aggcttgaag agaacccatc aattggtcta cggtcattga gtctaaatcc ttagactctt 120

caatagcaca aaccacataa tcaaatttat cgattaagga gcgaaagatc ttttccacca 180

cacgaacatc ttccatattt tctccataac gcttcatttg gttcacaata gccaacacct 240

tgttgccaaa atctgagata gattcagatt ccttcatatg caatgattca aactctctac 300

gtatagtttg taggcgcacc ttttttacct tatcaacacc ttcaa 345

<210> 5760
<211> 315
<212> DNA
<213> Glycine max

<400> 5760

agcttgagac atcatggtta attcttctgc tcctatgttg cacaccggga agcaacagaa 60

gtaactatgt gtctctgcac ttcctttcca ccactccatt ctgatgatgg gtatgtggac 120

agatcaacct atgttgcaca ccaagttctg caagataatt ggtaaatggc ctatactctc 180

ccccagtcag attgtacagc tttaacaggt aaattgaatt gagttttaac tagagtatga 240

aactgtttaa acagatcaag agtttcagat ttacttttca acaaataaag ccaagtaaat 300

cgagtgtgag catca 315

<210> 5761
<211> 314
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5761

agcttgngcc tctcttgtnt tttattgaan gnagcatata gatccgaaga cccttaggtg 60

ctttgctgat ggcttcttcc cgttccaagc ttcaattgga gtcttgtctt ttacagactt 120

agttggacat ctgttgagta tgtaaacagc agtgtagact gcttcagccc agaatgtgtt 180

aggtaatccc ttctccttga gcattgatct agccatttcc ataactgtgc gattctttct 240

ctcgaacact ccattttgtt gaggagaata tgcgactgta agttgtcgct caatgccttc 300

atcctcacaa aatt 314

<210> 5762
<211> 325
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5762

agcttgtgca tccaataccc tgttgaggtt tgtcttatgt nccnaaaact ggattgatgc 60

atttgcttcc aaagtttcat ggccttgcag gtgaagaccc gcacaaacat ttgaaagaat 120

ttcacattgt ctgctccacc atgaaacccc cagatgtcca agaggatcac atatttctga 180

aggcttttcc tcattcatta gagggagtgg caaaggactg gttgtattac cttgctccaa 240

ggtccatcac gagctgggat gaccttaaga gagtattctt agaaaaaatt ttccctgctt 300

ccaggacccc agccatcagg aagga 325

<210> 5763
<211> 336
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5763

agccgacctg cagcatgcaa gcttggttct aatttgattt tcattatatg acggnaccca 60

aggggacgtg cgagtaacaa ttattgccat ttgaatttgt tacgaaattc cgttttcaac 120

ttggagcaat ttaatatatt aggggactca attggacatc cgagtaaaaa gttattgtcg 180

tttgaatttg gtacgagctt ctattttcaa tttggaatgt atcgatatat tacgggactc 240

aatcggacat ccgtgtataa agttattgtc atttgaaaat gctcagagct tctgatctca 300

attttgagcg tgtcgatata ttatgggact caatcg 336

<210> 5764
<211> 331
<212> DNA
<213> Glycine max

<400> 5764

cccagcacgg gttctatgcc cgattctgct gttatctgag tccgaagcaa gaagccgatg 60

caactgcatg atggagttaa ccgccacggc ttcgttcgga ttcacctgca gcatccacgg 120

cttcacgtct tcaaggcgcc acgccgccac gccacgaaat gcaaacctaa cattcacgga 180

ccgcgccagc tcagcgagcc tgagcccaat ttcgcggagc gtgtcgcggt tgtcggacga 240

gggaagccca attcccgtga gcctcaacag cggaggccca ccgggccgaa gcgccagggc 300

ctgaatcagc gcgggccact ggagcccctg c 331

<210> 5765
<211> 318
<212> DNA
<213> Glycine max

<400> 5765

acctcagtgt gaaaagttat gactatttgt atttttcggg agcgtccgat gtgcattttg 60

gagcgtctgt atatgtgatg cgcctgaata ggacatccga gtgaaaagtt atgaccattg 120

gaatttctca agagctggcg atgttaaatt tagagcgtct cgatataata taagcctgaa 180

tcggacatca gtgtgaaaac ttatgaccat tttaacttct ggagagcttc cggagagcat 240

tttgtagcgt ctatatatgt gatgcgcatg aattggacat ccgagttaag agttatgacc 300

attggaattt atcaagag 318

<210> 5766
<211> 317

<212> DNA
<213> Glycine max

<400> 5766

agcttggttt cctccttctt cactacatca agaatcactg ggttgagtct tctttgtggc 60

tgtcttactg gtttagcccc atcctctaaa tttatttgat gcatacatgt ggatgggcta 120

ataccatgaa tgtccgccag ggtccagcct atagccttct tatgcttctt gagaactgat 180

aacagcctct cctcttgctc atcagcaagg gaggcagata taattactgg aaaacttttt 240

ctatcatcca agtaagcata ttttaaaatt gatggtagag gcatcaattc tggtgtggcc 300

ggctggatag tggtaaa 317

<210> 5767
<211> 282
<212> DNA
<213> Glycine max

<400> 5767

gaaatcaatc ttttcacata tctgcaaact catcaagctc caaaggattg gacatctcgt 60

gcatttacct ccttgtcttt gctttgacct tctatgcaaa ctttccggcc ttcttctttt 120

tctccaaagc tcgaatctat aagaaccagc tacctatgat gatacatagt tagaaagtgg 180

aaagcttggg aaattataaa tatatatcga aaatatattg gtaagtacct gattcggtga 240

cacatagagt ggattctcat ataaagttgg gcctccaaaa ct 282

<210> 5768
<211> 320
<212> DNA
<213> Glycine max

<400> 5768

agcttgcatt tcctccatga atttcttggt ctcgaaacgt gcgatggtac cctagttgtt 60

caccaaattt gctttggtca ttccaatgtc acggtcaata atggaaagag tcttgttggt 120

tttgtcgggc acaacacaga tgaagaacta tggttaagca tcaagcttgc tcttgtcaga 180

atgatcctcc ataattttta ctgcaacaac ggtataatct ccctgtggcg gtggcttcgg 240

aggtggtggt tgatatggcg gcgggcgtct acgccggtga ggaacagaac aaagctaagt 300

cgtattagtg gagagaatcc 320

<210> 5769
<211> 324
<212> DNA
<213> Glycine max

<400> 5769

gcttggagaa agaaatatgg ctttttttata gccgatgtct atttaagata tacataggtg 60

tgcctccttg catataaaca tgaatttttc aagggctttg aaatattctg taaaagggtt 120

caaaaggaaa agggttttgc atttcttcca tcaaaagtga tcatggaatt gagtttgaga 180

atgctgagtt caaatcattt tgtgaaagga atggtatttt ttgcaacttc tcttcatcaa 240

gaacacctca actgaatgga gtaattgaaa gggaaaataa aactctacaa caaatgggta 300

ggaccatgct ttgggaaaac ttac 324

<210> 5770
<211> 304
<212> DNA
<213> Glycine max

<400> 5770

agctttctac tgcattttag aattatggat ttcggcaatc ttgctctgac tattccctct 60

tcactttacg gactacaact gtccatcttg tggtgctagt ttacatggat gatcttattg 120

tttcaggtaa tgattctgaa gctattcttc ggtttaagct ttatcttcat atatgctttc 180

atatgaagga tttgggaaga ttgaaatatt ttcttggagt ggaagttgct cgctcaccca 240

aaggaattta cttgtgtcaa agaaaatacg ccacggatat tattcttgaa actgggttac 300

ttgg 304

<210> 5771
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5771

tagggcctcc aaaatcatct aaatattatt agatgatgag agatcaactc atatcaagag 60

tatgttatca tcaatcattt tcttaaaatc taataattat aataagtcaa taattatatc 120

cgcttaattc caagaaaata aattgtgagg atgaatgata gctcttggtt ggtgtgtaag 180

ttgatccatt ctcttattag atattatatc ttctaattaa tcaacgatat aattatgaag 240

atcataaatt aatgaagtta agtaaagcta tattagacnt ttaaaaaata aacatttttt 300

tatccggagg atccagctat attataaatn taattagaat attctggcca tattattcaa 360

tcaatcttga atatata 377

<210> 5772
<211> 269
<212> DNA
<213> Glycine max

<400> 5772

cgttcctaat atctctacta ttgcaacacc tctcaatgag ctggcgaaca agattgtggc 60

gtttacctgt ggtgataaac aagagcatac ctctgctttg ctcatagatg aggttactaa 120

ggcacctgct ctagctctct ctgactttac taacacttgc gagctaaaat gtgatgccta 180

tggagtggga gcatgagcag tgttgttaca acgtgggcac cctattgctt agtttaatga 240

gaaactatgt agtgccttcc ttagctacc 269

<210> 5773
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5773

gcttacctag aagtatggca tggattactt cagcgctgta gcgcttggta ctcgaacttt 60

ggctcaacgc attntatcta cccttattac tctgaaaaag caggggcacc ttgcgtcctt 120

gaaccgataa ccatattttg gctaacctag cctcctccat ccctcgagtc caataaaggg 180

tagtacaaga atattcacct tttgtccatc gactacgccc ttcggccgga tcttatgcct 240

tgactcaccc tccgtggatg aaccttacga aggaaccctt gggttttcga ggcattggat 300

tcttaccaac gttagcgtta gtcaagccaa cattcccgct tctgcttcga ccagcactac 360

tcgcatgggt ccctccctgt aagatggtac actcccctac cgattcattt tac 413

<210> 5774
<211> 390

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5774

taattggaaa ctgaattcat tttttactat tgtaattgaa ggtgaatata tcttaactca 60

aaaactcttt tctacaattg aaaattttaa atctttagga tttctcaatt agggcaatca 120

ttaagttcaa gaatatctaa attatcataa ttgttgatat ttattcctat agaatttcca 180

actttgttac attatatctt aaattcaatc cttatttcaa tttcacagtt gtcgatagga 240

atatacgatc aacgcactat aagtgaccaa atgccaattt acaaaggcac taaattaaaa 300

aaagacaaac attcaattta aaagacatga atttgaatta cagataagaa ttcaaattac 360

atcaagttaa cagnaaattg agtacacatt 390

<210> 5775
<211> 413
<212> DNA
<213> Glycine max

<400> 5775

ctgtattttc atatccagga gggtgatcaa cacacactac ttcttgaata aaaccattca 60

aaaatgcact tttaacatcc atttgatttt gaaatcaatt atggatgcaa atgctaataa 120

gattctaatg gctagtaatc caaccactgg agcataagtt tcttcataat ctattccttc 180

ttcttggtta tatcctttag ctactaatat acttttattt ctaataacta ttaactactc 240

catgttcatc caatttgtct ctaaataccc atttagttcc aataattgga tgatcattaa 300

gtctatcaac taattcccaa acttgatttc tctcacattg atttaaatgc ctcttgcata 360

gcaactaatc aaatggtcat caattatggt ttcatttatg ttatttgggt caa 413

<210> 5776
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5776

ggtaaactgt ttcatctgtt tgataatgat ggttataaag ggcatctact ataagaaaac 60

ataaagatta tactagttca gtagtataaa gggtgatcct tacctttatt taatgcatag 120

tttctatggt catgctagtt caatagaatt agtgactttt gactctgttg aagtgttggt 180

tctttctgga gcatcgtcag ggataataaa gctttgggat ttggaagaag caaagagtaa 240

gttaattagt atattttgaa gtcatggact gtataatgta taatgatgtt attcatantt 300

gagaaagact gcaggtgagg aagtttgatg tctaatgttt ttgggaatga tgattgatgt 360

aggtggtcat tgagttcttt attggattgt tgctntattt ttggaccatg ctgcttatca 420

tcacaggtac aagtggttct ttgtaaactt ttgatgtt 458

<210> 5777
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5777

aagctggcga tgtcgaaaat ctcagctgtt agctgtctag agaagaaatt gtggctcacg 60

ttgagactag tgaggtttgt gaagatgatg aattgcttcc ctgaaaccac acctcccaat 120

ttcttcatgg aaaggtctat ggaagttaca attgttgagt cattgttaca cttgatgccg 180

gaccaagaac atgcatagga tttcccagtt aattgtcctc cagagggcac cacccaattg 240

tgcaagctgt tgtcatcatc tacaagctcc gattntatgc tgagaagtgc ctctgagtaa 300

gggtcaattg ctagaactgc tgatgatacc atgaagaagg taacaagaat aagatctttg 360

atgtagaagc atttgaaaat ctccattgga acttggagag catcacaagg tagagaggga 420

caattgtaag taccc 435

<210> 5778
<211> 453
<212> DNA
<213> Glycine max

<400> 5778

cttagtaaag ctaaacacgt acaatctcca cctctggtga aatttgtcta aaacatactt 60

agacactttc tgagcaggta cgagcagtta tgcaagtggg atcagcaact ttcattatca 120

gagtaatcaa gcacagcgga aattctgcat gttgcaagtc gtttccagga tgtcaagaca 180

tctcacatga catcagcttt ctgcttctgc tgcccctgtc tacatgctta ctgcagcatc 240

ttctaacagc tactagtctt ttccaggatg tcaagacatc tcatgtgaca tcaactgctc 300

cccctgtcta catgctctta ctgttgcatc ttttatcagc tactagtagc ttacaccagt 360

catcatcagc agcagcagtc tgcccctcaa aatcatatac atacaactcc ccctcaaaat 420

catgaagcat gcatacatcg tatcctacta atc 453

<210> 5779
<211> 345
<212> DNA
<213> Glycine max

<400> 5779

aacacacact actgtttgaa taaaaccatc tataaatgca cttttaacat ccatttgatt 60

ttgaaagcaa ttatggatgc aaaggctagt aagattctaa tggctagtaa tccaaccact 120

ggagcataag tttcttcata atctattcct tcttcttggt tatatccttt agctactaat 180

atacttttat ttctaataac tattaactac tccatgttca tccaatttgt gtctaaataa 240

cccatttagt tccaataatt ggatgatcat tacgtctatc aactaattcc caaactggag 300

tttcttcaaa ttgaattaat ccctcttgca tagcaataat caaat 345

<210> 5780
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5780

agcttgtctt gtgcagaatt agggtacaca ttcttttttt gagatnttta cacataattc 60

cagagcacac cacagtgcct attttgggaa aagagctctg gaggcaacaa gatgagcaac 120

ttttgcagag atacctaggt cttgtaatta gagagagatt agaagtttat gtagacgaca 180

tgatcgtaaa gagtaagcaa gtggatgaac acctagccaa cttgttggag ttgttaatgc 240

aactaaggaa atacaatatg agactcaacc ctagaaagtg tactttcggg gtacaagtag 300

gaaagttttt gggatacatg ttaaccgaaa gaggaattaa ggtaaatccc gacaagtgta 360

aagccacatt ggagatgagg agtccta 387

<210> 5781
<211> 457

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5781

ggttcatctt gagataatag gtggtcatcc tcatttgaag ttgatggttc atcatatttc 60

tttggcctaa cagaaactcc aatattttta cagcttctaa tgttatgatt ggtttggcca 120

caccttccac atgtaaactc agccaatttc ctctttagct tatgtcctgt gacattgtcc 180

tcatctacag atctctttct attattcttt ggccttcctc tttggaccct tntatgtggt 240

ggaacaaggt gtgtatattg tgtctgggcc caatattgtg gtccttggac tggttaataa 300

aatgctggta tgtcttatta taaacttcta ttgacagcca ctcatgacac atgtccttag 360

gcttccctcc tttgtgagtt atngttgcaa tggcatgtcg gcatggcatc cctacatcaa 420

agttgttaaa tcagcacaca tgtacgttag gaatgaa 457

<210> 5782
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5782

tatcatccaa tatagggata ggatatctat actttatagt taatttattn atggctgggc 60

agtctgtaca catgtaccat gtcccatctt tctttggaac caagatcaca gggacaaaac 120

acgggctaag actttccctt acaaatccct tntgcaagaa ctcatcaact tggctttgaa 180

tctcctttgc ttcttctgga ctttacctat aggctggcct atttagaaat gaagcaccaa 240

gaatgaagtt aatttgatgc aatacctctt aaaagaggta atccatatgg aatttcttct 300

aaaaaaacat caacaaattc ctgtaacaag gaaacaatct cacaaggcaa agaagagtta 360

aaatcgttag taaaataaac atcattgtac attagtacaa gtagctgctc tctggccatc 420

aaagtactct caacctctct 440

<210> 5783
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 5783

agcttaattn ttcttttaga atgttagttg tccttccttc aacctcactt cctcccatac 60

tttntccatt atttttagaa gcttttctct ttgaaccacc catttataac tctaaacagt 120

ttagtgcctt agtcaatgat gctattcttt agaacaatag ggcaatgatc tgatacactc 180

ctattcaaga catgatgaga gctcccttgc caagtgagta acccattctt tagatacaaa 240

tactctgccc aacttactct ttacatggct atttggctta aaccatgtat acatcctttg 300

aacaataagg atgtcctcta gctccatgta aaanatgaaa ccattaaact ccctaatggt 360

cccttcacca ccat 374

<210> 5784
<211> 262
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5784

cattcactct gcaaatgttn tgcaccgaga tcttaaacca agcaatttac ttttgaacgc 60

aaactgtgat cctaagatat gtgactttgg gcatgctata acaacctcta agaccgactt 120

tatgacagaa tatggtgtca ctacgtggta cagagccccc gaattgctac tgaattgtca 180

gaatatactc aactattgat atttgggcgg ttggttgcaa tttgatggag ataaatagaa 240

gggagccttt aattcctggt aa 262

<210> 5785
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5785

agctntacta tgcagagaat atccaaggaa attaccttca tctgacttag catcaaattt 60

tcctaagtta tcttttccat tattcaatac aaaacattta caaccaaaga tatgaagatg 120

agagatgttt ggttttctgc cattgaccaa ttcatatgga gttttcttta aaatgggtct 180

tattaaagcc ctatntaaac tgtagcatgc agtgttaacg gcttcagccc aaaagtattt 240

tggaagagga gtatcattta ataaagttct agcaatctct tccaaagatc tatttttcct 300

ttcaacaaca ccattttgtt gaggggctct tggtgcagaa aagttatgct taatcccatg 360

cttatcacaa aataattcaa attcttattt tcaaactcac ccncatgatc anctctaata 420

gatataatct ttagattttt ctattt 446

<210> 5786
<211> 216
<212> DNA
<213> Glycine max

<400> 5786

gcttactatg caaggaataa ccaaagaatt tttcttcatc tgacttagca tcaaattttc 60

ccaagttatc ctttccattg gttaatacaa agcatttgcc accaaaaaca tgtagatgtg 120

agaaatttgg gttcctaccc ttaaacaata ttgatggagt tttctttaaa ataagtccta 180

ttaaagccct attcatgata taacatgcag tattaa 216

<210> 5787
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5787

cttgtgtaat cgattacact tatttggtaa tggattacca gtgactattt ctgtaaaaat 60

caaaaggtgt aactcttcaa aaaggttctg acttttttcaa atgagtttta agtttttcta 120

aaagttataa ctcttcaaaa aggatttgac tttttcaaat gggttttaag tttttctaaa 180

agttataact cttctaaatg atcttcttga ccaaacatgg agagtctata aaagcaaggg 240

tttgttttgc atttcaacaa tcttgaatac ttttacactt attcaacaat cctttacaag 300

ccttgactct ctttgaattt cttcttcttc tttgtaccaa aaagctttct gaagttttct 360

ggttttccaa accttgaaaa cttgtgctat tcatcttttc attctcttct ccatttgcca 420

aanagaattc accaaggact aaccgcctga attctttt 458

<210> 5788
<211> 243
<212> DNA
<213> Glycine max

<400> 5788

aatagtagct cctagcaaat tcaaaccata ataactcttt actcggatgt ccgattgtgt 60

tccgtagtat atcgtgacgc tccaaattga aaacataagg tctgagcaaa ttcaaacgtc 120

aataagcttt tactcagatg tcccattgag tcccgtaata tatcgagaat gctccaaatt 180

gataatagta ggtccttcca aatttaacca taataacgtt ttactcggat gttcgattga 240

gtc 243

<210> 5789
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5789

ntcgagaatn taaaattgtc ataactnttc actcggatgt ccgattcaag cacatcacat 60

atggagacgc ccgaaattga acaacggaag ctctcgagaa attgaaatgg tcataacttt 120

tcactcggat gtccgattca ggcacatcac atatcgagac gctcaaaatt gaacaacgga 180

agctctcgag aaattcaaat ggtcataact tatcactcgg atgtccgatt caggcgcatc 240

atatatcgag acgctcgaaa ttgaacaacg gaagctcttg agaaattcaa atgatcataa 300

cttttcactc ggatgtccga ttcaggcgca tcatatatcg agacgctcaa aattgaacaa 360

cggaagctct cgagagatca aatggtcata acttttcact cggat 405

<210> 5790
<211> 263
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5790

agcttccatt gttcaattnt gagcttctcg atatatgatg cgcctgaatc ggacatcctg 60

agtgaaaagt tatgaccatt tcaatttctc gagagcttcc gttgctcaat ttcgagcgtc 120

tcgatatgtg atgctcctga atcggacctc cgagtgataa cttatgacca tttgaatttc 180

tcgagagctt ccgttgttca atttctaacg tctcaatatt tgatgtgcct gaatcagaca 240

tctgagggaa aagctatgac aat 263

<210> 5791
<211> 447
<212> DNA
<213> Glycine max

<400> 5791

tcgcacttga taatggaggc acatgaacag cgctaggcaa tgacattcat ggtgctccaa 60

acaaaggtgg agtatggagg attgccttga gggtccgcaa ttaggcaatc atgaaactca 120

tctccaaact cgaaagtgga gaacacatga acagccctaa gcaataacat tcacgtggct 180

acgaaatagg atgagaatgg aggatcgcct tgagggtcct ctcttattca atcatggaac 240

acagctccaa actcaaaagt ggagaacaca tgaacagccc taagcaataa cattcatgtg 300

gctccggaaa aggacgagaa tggaggattg ccttgagggt cctctcttag gcaatcatgg 360

aatacagctc caaactcgaa aatggagaac atgtgaatga caacgcaatt cactcacgtg 420

gctccagaaa aggatgagaa tggagga 447

<210> 5792
<211> 323
<212> DNA
<213> Glycine max

<400> 5792

agctagtcca atcgatttag agaaatgcct tcataagcat atctgcatat tgatcaattg 60

cacggatcat gaatgacacg attatgagca agagaaatat tgctcaaatt atcaccaaaa 120

attctaggaa tagtgtgaga aactttcagc ttaaacaaca aggtctgaat ttgttggacc 180

tctaatgtat ctggagcaag gttccagttc ttatgcttca gtgctagaac gagcaacaac 240

agattgcttt ttggaccacc aagagaccat gctgggtcct atatagaaaa aagcattgaa 300

tgtagacccc ctgttctttg gat 323

<210> 5793
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5793

tcaatcttta atggagaagg ttaccactac tggaaaaccc gaatgccaat ttttatcgag 60

gcaatatatc taaatatctg ggaagccatt gaaatagggc cttatatacc caccacagta 120

gaaagagttt caatagatgg tagttcatca agtgaaagca taaccataga aaaacctaaa 180

gatagatggt ctgaagagga tagaaaacga gtaccataca acctaaaagc caaaaacata 240

ataacatctg ccctaggaat ggatgaatat ntcagagttt caaattgcaa gagtgctaaa 300

gaaatgtggg acactcttcg ataacacatg aaggaactac agatgttaaa agatctanga 360

tgaatgcact aactcatgag tatgaattat 390

<210> 5794
<211> 309
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5794

tcgagcgtnt gacatattac gggacttatt catacattng agtaaaaagt tattgttgtt 60

tgaatttgct cagagcttng gtgttnaatt tcgagcatct cgacatatta cgggactcaa 120

tcatacatcc gagtaacaag atattgtcgt ttgaatttgg tcagagtttc gataatcaat 180

ttcgagcgtc tcgatatatt acgggactca atcagacatc cgagtaaaac gttattgtcc 240

gttgaatatg ctcatagctt cngtcttcaa tttcgagcgt ctctacatat tacgggactc 300

aatcagaca 309

<210> 5795
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5795

agctntgagc aacttcaaac gacaataact ttttactctg atgtctgatt gagtggccga 60

atatatcgag acgctcgaaa ttgaataccg aagctctgag caaattcaaa cgacaataac 120

tttttattct gatgtctgat tgagtcccgt aatatatcga aacgctcgaa attgaatgtt 180

gaagctctga gcatattcaa acgacaataa cgttttactc ggatgtctga ttgagtcccg 240

taatatatcg agacgctcga aatggaatac cgatgctctg agcatataca aacgacaata 300

actntttact cggatgtctg attgagtccc ggattatatc gagacgctcg aaattgaatg 360

ttgaagctct gagcacattc aaacgacaa 389

<210> 5796
<211> 430
<212> DNA
<213> Glycine max

<400> 5796

agtctcacga ttgtcatgtg ctcatgcatc aattgttagc cgtggctata cgagacatct 60

tgccaaaaca aagtcagatt aacgataact cgcctgtgct ttttcttcca tgctatatgt 120

agcaaagtca ttgatccagt aatgtttgat gagttggaaa atgaggccgc aattatactg 180

tgccagttgg agatgtattt tccccctgct ttctttgaca tcatgattca cttgattgtg 240

catctggtca gagaaatcaa atgttgtggt cctgtttatc tacggtggat gtacccggtt 300

gagcaataca tgaagatctt aaaagggtat acaaagaatc tatatcgtcc agaagcatct 360

attgttgaga ggtacattgc agaagaagcc attgaatttt gtttagaata cttagagaag 420

gctaaaccta 430

<210> 5797
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5797

agcttaanaa ggcactctat gggtttaagc ttgcccctag agctaggaat aaaaggatng 60

atgccttttt ggttcagcaa tactntagca agtgctatat tgngcatgga gtatatgtaa 120

gattgcaaaa tggaggattg gatcaagtaa taatatgcct ctatgttgat gatctattgg 180

ttattgggaa caatcttaag gagattgatg atttcaaatc tgacatgatg tttgaatntg 240

aaatgataga cttgggaaga ctcagttatt tcttaggtat agagtttaca aatgcttcaa 300

ccagaactat cttgcaccaa aagaagtatg cattagaaat attgaaaaga ttcaatatga 360

ctaattgcaa cttagttgtg acaccaatgg at 392

<210> 5798
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 5798

agctnntaat tgactgagaa caagaaagat ttaactgtag gtcattttat caatcagatt 60

aactaaaagc ataagttaat aagtatgggc caatgaatgg ttattataaa tatataacct 120

taatacccat aaaccaaagc tacaataaaa actgataatg tacttacaca gttacacttc 180

cctagcatga ataatatcct aagtttttta gaatttattt aagttgctcc agtgccatga 240

gaccatgcca aaagaaatcc aattaatata acaatgttag aaactaaata ctcatgacag 300

gaatgcttac atgtgactaa aataaaatta aacaaaatac aaatatatat ctttttaatt 360

aatggagatc aatatagaac aaacatatag tagtgatgat catagcaatc aaa 413

<210> 5799
<211> 457
<212> DNA
<213> Glycine max

<400> 5799

cttgcattgc ttggcagaat tgcgaacaag gagctaagag attctagccc actggttctt 60

accatatttc ataacaatcg cttttaggat ttcatcttcg gtgtttttcc aaacattgcc 120

ctttatcata atcctcatct tcacttcaac tacagtcaac aaccaaacaa ttcaaacaaa 180

gattattaga tgtgaaaaat aagggaaaag aaaaataatg agacatcagg ccttatgtta 240

gggagaataa aaaaccacac tcttgcaatt aggttttgaa gtaacgtatt atgcgataag 300

gaagaagaat gatccattca agtgagcgag agtccaaagc gagcttcatc gtgtgaggca 360

tgaaccagag tccatagcac tgttgacttt gtcggagcca tggcagatcc acaccgaacc 420

accatgagtg gtatgtgtcc aacacttcag aatccat 457

<210> 5800
<211> 220
<212> DNA
<213> Glycine max

<400> 5800

gcgtctcaat atattattgg cctgaatcaa acatccgaat caaaggttat ggctgcttaa 60

atatgccatg tgcttcaatg atcaattgtg agcatctcga tatattatgc aactgaattg 120